

Commercial
Products

MAR 15 1980



PROFIN



The information contained herein does not purport to cover all details or variations in equipment nor provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently herein for the purchaser's purposes, the matter should be referred to the Rohn Home Office.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.


All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

IMPORTANT NOTICE

**MOST CATALOG SHEETS REFERENCE
EIA STANDARD RS-222-C UNLESS
OTHERWISE NOTED. REVISIONS WILL
BE MADE TO INDIVIDUAL SHEETS
PERIODICALLY TO INCORPORATE
ANSI/EIA-222-D-1986 STANDARDS.**

ROHN



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<https://archive.org/details/commercialproduc00unse>

September 1, 1987

ROHN FACTORY SALES PERSONNEL

If you require additional information concerning ROHN Products, please contact the appropriate ROHN Sales Manager from the list below:

Kenneth L. Cordrey
EASTERN DIVISION SALES MANAGER
P. O. Box 106
Worton, MD 21678
Ph. 301-778-4441
FAX: 301-778-3096

Larry A. Grimes
CENTRAL DIVISION SALES MANAGER
2631 Tarna Street
Dallas, TX 75229
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James F. (Fred) Hardee
MIDWEST DIVISION SALES MANAGER
P. O. Box 2000
Peoria, IL 61656
Ph. 309-697-4400
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Philip W. Metcalfe
NORTHWEST DIVISION SALES MANAGER
P. O. Box 2000
Peoria, IL 61656
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TWX: 910-652-0646
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ROHN

ROHN VIEW TUBE ROADS

P.O. Box 1000

Peoria, IL 61656

Ph. 309-697-4400

FAX: 309-697-5612



ROHN, the leader in Communication Support Structures, now offers you our custom engineering and Hot Dip Galvanizing for *all* your custom Communication needs.

We are proud to introduce the addition of **Tapered Tubular Poles** to our extensive line of Communication Structures.

The new galvanized **Tapered Tubular Poles** are available with various options including cellular mounting platforms, antenna mounts, or custom painting.

Complete turnkey installation is available on all **ROHN** Communication Structures.

ROHN®

6718 West Plank Road
P.O. Box 2000
Peoria, IL 61656
309-697-4400
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BEWARE

Guyed Towers are Not Self-Supporting at any Height

You could be killed.

When dismantling a guyed tower always consult your Local Tower Installer. The condition of a used tower is difficult to determine and in the process of dismantling you could be killed or seriously injured.

Dismantling and installation should be done with temporary guying if necessary. Guyed towers are not self-supporting at any height.



INSTALLATION SUPERVISORS, WARNING LABELS, CATALOGS, GUY CHARTS, ETC. ARE AVAILABLE FROM ROHN.

DUE TO GOVERNMENT REGULATIONS, BE SURE YOUR CUSTOMERS ARE INFORMED AS TO PROPER USE WHEN PURCHASING ANY ANTENNA SUPPORTING STRUCTURE.

THE MIXING OF SO-CALLED INTERCHANGEABLE COPIES OF ROHN TOWERS WITH ROHN TOWERS IS DANGEROUS AND VOIDS ALL ENGINEERING OR WARRANTY DATA SUPPLIED BY ROHN. MATERIALS USED BY THE SO-CALLED COPIES ARE NOT THE SAME QUALITY AND HAVE NOT BEEN TESTED OR ENGINEERED BY ROHN TO CONFORM TO THE SAME QUALITY STANDARDS. MIXING OF ROHN ITEMS MAY ENDANGER THE LIVES OF YOUR CUSTOMERS AND CAUSE SERIOUS TOWER FAILURES AND FINANCIAL MISFORTUNE FOR ALL CONCERNED.

Installing and rigging towers, masts, and antennas require specialized skills and experience. Information supplied by Rohn assumes that all products will be installed by personnel having these skills and having installed similar products before. No one should attempt to install towers or masts without these skills and experience.

Rohn assumes no liability if faulty or dangerous installation practices are used. There are available trained and experienced personnel to assist in installation, maintenance, and disassembly. Contact your local installer if consultation or assistance is required.

Rohn does not recommend or warrant in any way the use of used tower sections. The use of used tower sections voids all warranties set forth by Rohn because no one knows if the used material has been misused, overloaded, or damaged. If, for some reason, tower sections are re-used, all new, galvanized, high strength bolt assemblies are recommended.

Rohn recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All antenna installations must be grounded per local or national codes.

Do not install towers or masts near power lines. All towers or masts should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

Rohn makes available many items and types of towers which may or may not be required for your particular installation. Based on local, state, or federal laws and building codes for your area, it may be necessary that your particular tower have special items or be given special consideration.

Rohn makes available, either as standard or specials, many items and special care should be taken as to whether any or all of these items are required for your tower. Please be specific and advise us of your exact needs. Rohn cannot be responsible for any omission at anytime.

Some items available in various types and sizes are safety climbing devices, ladders, safety cages, anti-climbing devices, work platforms, rest platforms, F.A.A. painting or lighting, grounding, and fencing. Special engineering service and special packaging are also available. If there are any special requirements for your tower, be sure to include them in your request for quotation and on your order.

Due to the present day Occupational Safety and Health Act regulations, towers and parts are available incorporating features which will permit a safe product. However, the following is our position with regard to OSHA.

It is Rohn's intention to comply with the Williams-Steiger Occupational Safety and Health Act of 1970. It is a policy of Rohn to design and make towers and related equipment that are safe to use without hazards to people and/or property. We cannot, however, agree to a "blanket" certification that we are in total compliance with this Act because there are provisions in it whose meaning and application are unclear.

Therefore, we ask that you list your specific requirements with which you wish us to comply. These requirements may or may not affect the price of the towers and equipment under consideration for purchase.

We appreciate the opportunity afforded and would be happy to answer any additional questions you may have relative to our proposal.

Your tower may or may not include step bolts for construction purposes. Step bolts are supplied on self-supporting towers as a convenience during construction.

If your tower has step bolts, the spacing at the section joints may not be consistent with the spacing throughout the tower. If this condition presents any hazard, please do not use these step bolts. If you or your customer think this possible unequal spacing will present safety problems to any personnel, do not install any step bolts. For proper safety Rohn recommends a ladder and safety climbing device on large towers where inexperienced personnel climb the tower.

Rohn will not be responsible for the use of step bolts. If you wish to use step bolts as supplied, this responsibility will be totally yours or your customers.

UNR-Rohn
Division of UNR, Inc.

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310 Quincy Street
Reno, NV 89512

2631 Tarna Street
Dallas, TX 75229



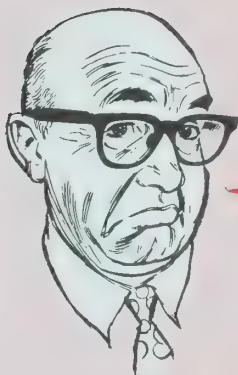
DANGER

**YOU CAN BE
KILLED**

If you are installing a CB base antenna and tower yourself — DO NOT attempt to raise the installation near any type of power line. Should your installation come into contact with any power lines *you can be KILLED*. Be sure your installation is out of falling distance of any overhead wires — including the lead to your home. Read all instructions carefully before you begin or better yet — call a professional — It May Save Your Life.

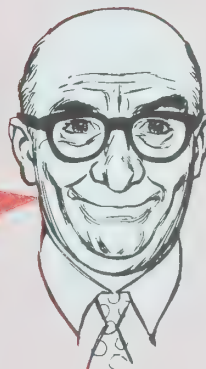
ROHN®

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**We've
said it
before...**

**We
say it
again...**



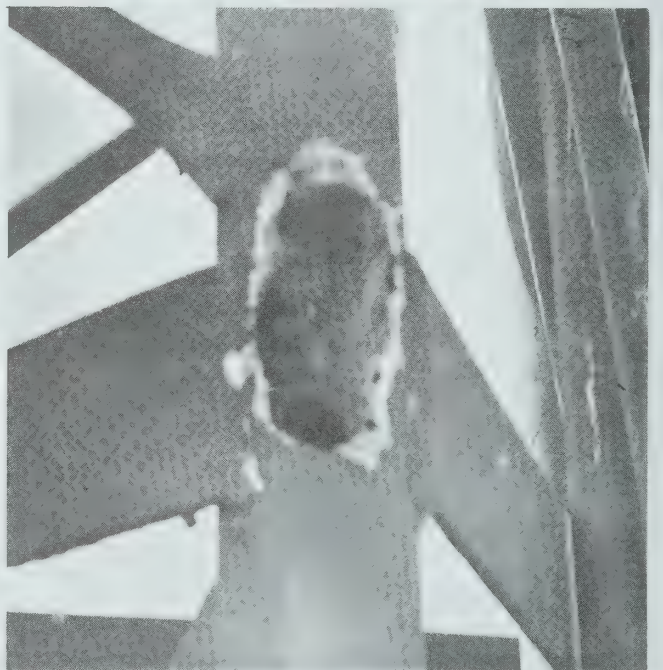
"There is a DIFFERENCE

Here's an actual example of a competitive tower after 5 years

"THEIRS"

In 1959, the Department of Highways of the State of Louisiana, purchased and had installed 7 communication towers fabricated by XYZ Co.

In 1964, approximately 5 years after installation, these towers (*pictured here*) had to be replaced because of serious and obvious corrosion and rust. In fact, as clearly seen, the towers were unsuitable for further service and presented a dangerous situation. Subsequently, they had to be removed . . . and in doing so, it was reported that the towers were so badly corroded that they could not be disassembled, but rather had to be toppled by cutting the guy wire at the anchor rod.



While corrosion and rust are natural occurrences from water, proper zinc galvanizing is an excellent preventative. But *poor quality* or *improper galvanizing*, or *short-cuts* in the galvanizing process, result in drastically shortened tower life and a very poor length of service.

in Tower Galvanizing!"

and a **ROHN** Tower after 9 years...

"OURS"

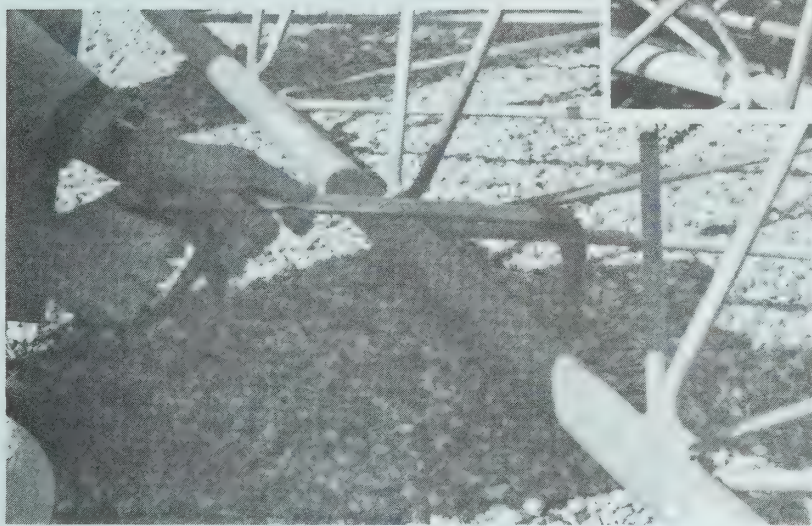
In 1964-65, after the XYZ Co. towers were taken down, they were replaced with 7 Model 65G **ROHN** Hot Dip Galvanized towers.

NINE YEARS LATER, in April, 1974, a single **ROHN** tower of this group was dismantled. The photos on this page are of that tower, indicating the striking preservation of the steel . . . *without rust or corrosion of any kind.*



A section of steel was then deliberately sawed from one of the tower legs (*shown in the photo*) in order to inspect the *interior* of the legs.

The results are clearly shown in this unretouched photo (*below*) indicating no visible corrosion or breakdown of the steel.



AFTER 9 YEARS, THE ROHN TOWER WAS READY FOR FAR LONGER AND CONTINUED SERVICE, THANKS TO A SUPERIOR GALVANIZING JOB!

ROHN TOWERS

have always been quality Hot Dip Galvanized in-house and on-the-premises for absolute and complete quality control. The following page shows this process in detail . . . *"the ROHN way".*



ROHN[®] IN-HOUSE

"Quality Control" Galvanizing

means extra value for you!

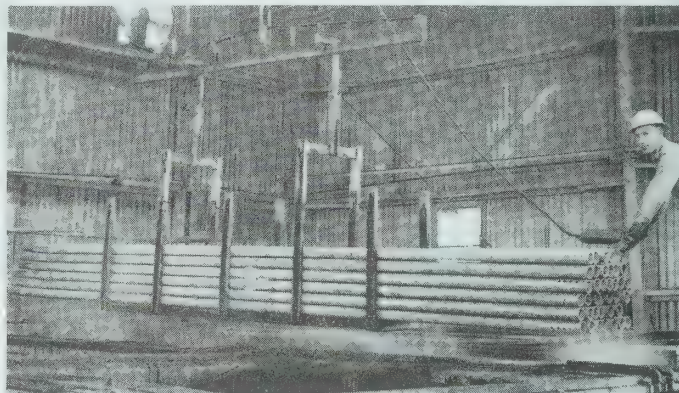
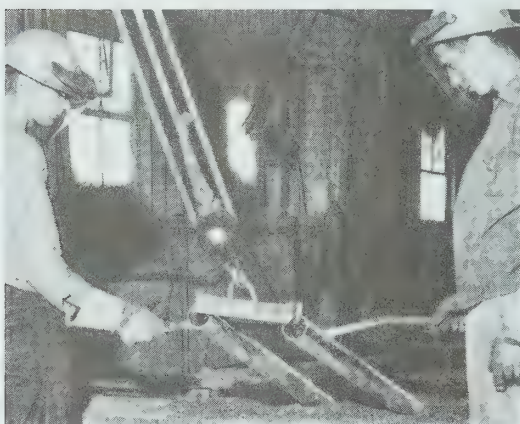
CORROSION RESISTANT: Hot-dipped zinc galvanizing means that ROHN Products are absolutely corrosion-resistant. A minimum molten zinc coating of 2 ounces for every square foot of surface fuses permanently to the metal, becoming an actual part of the steel so it cannot be separated. Also the tubular steel used in ROHN Towers is coated both *inside* and *outside* to give absolute protection against deterioration from condensation and moisture.

CHIP AND SCRATCH PROOF: If a galvanized surface is scratched or chipped, the sur-

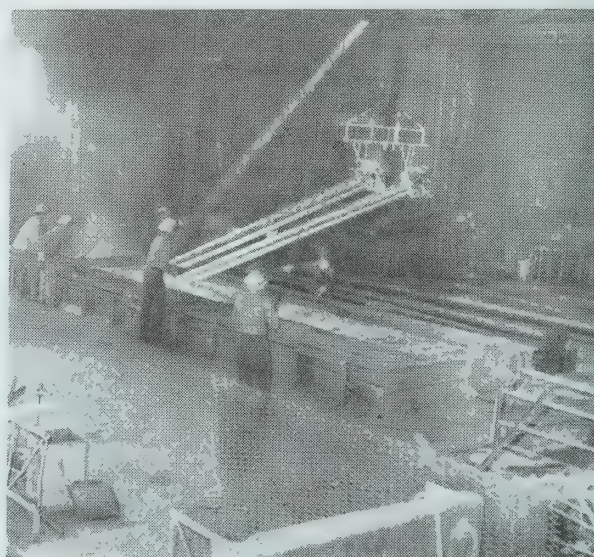
rounding zinc actually "heals the wound" and continues to seal out all corrosive elements! Nothing but hot-dipped galvanizing does this.

PERMANENT DURABILITY: Galvanizing means permanent protection and attractive appearance that cannot be matched by any other type of coating. With ROHN Products, you receive the *very finest* available—anywhere. All Hot-Dipped Galvanizing is done in the ROHN Galvanizing Plant according to ROHN Rigid Controls for Highest Quality.

Shown here are the huge pickling vats at ROHN where towers and other ROHN Products are prepared for galvanizing. Modern, high capacity equipment, skilled, experienced operators and finest raw materials keep ROHN quality high.



ROHN tower sections after fabrication are completely immersed in the molten zinc where all welds, points of construction, inner parts, including the interior of the tubing itself — is heavily coated with zinc.



ROHN[®]

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U.S.A.

ROHN COMMUNICATION TOWERS

Described herein are brief details of ROHN Towers. While primarily used in all types of communications, they also find uses in an amazing array of purposes. In fact, it literally can be said that today there is a ROHN Tower for every need. Hundreds of thousands of ROHN installations that further have withstood the greatest test of all . . . the

test of time! For over a quarter century ROHN has been supplying towers of all kinds for microwave, AM-FM-TV, radar, VHF and mobile radio, military purposes, airports, high-level lighting, meteorological, instrumentation and ecology needs . . . and a host of others that serve dependably as no other tower.

TOWER No. 25 TOWER No. 45

DESIGN

This tower utilizes heavy duty $1\frac{1}{4}$ " —16 gauge steel tubing for side rails in a $12\frac{1}{2}$ " equilateral triangular design with solid steel zig-zag cross pieces, entirely electric welded and fabricated by precision machines. Total of 8 zig-zag steps per 10 foot tower section.

ROHN No. 45 tower is designed in an 18 inch equilateral triangular pattern. The three legs of the tower are of heavy, 14 gauge, special quality steel. The cross bracing is the ROHN "zig-zag" design using a continuous solid steel rod which is electric welded to side rails every $15\frac{3}{4}$ inches. All sections are 10 feet in length.

CONSTRUCTION

This tower is constructed so as to be capable of being installed at guyed heights up to 200 feet.

The entire tower is accurately constructed, utilizing precision machines and then electric welded throughout. Workmanship and materials are of the highest quality available and fully conforming to specifications.

FINISH

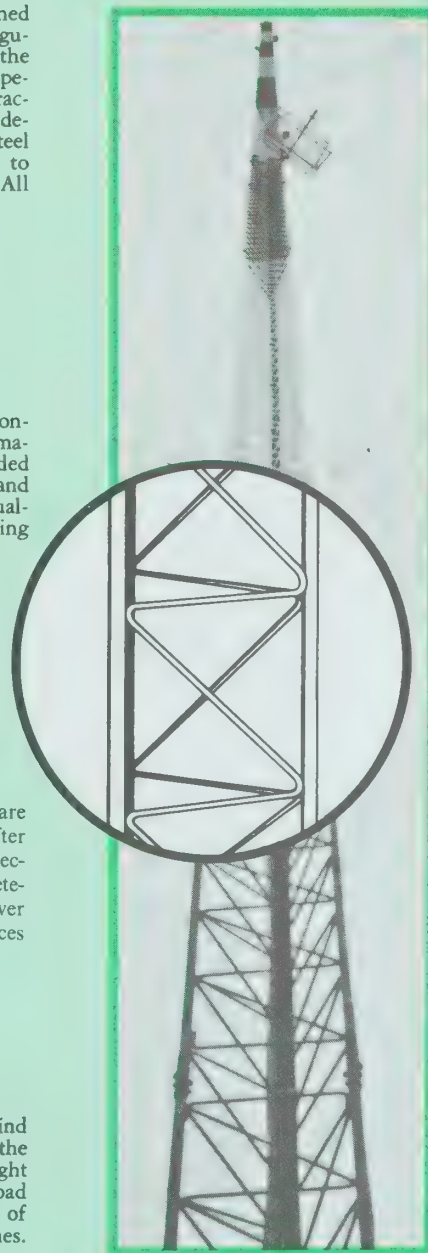
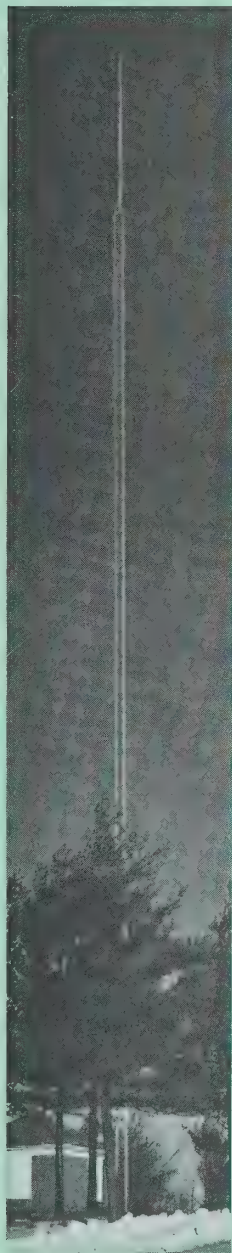
This tower is ROHN hot-dip galvanized after fabrication and this coating completely covers the inside and outside of tower surface with a minimum of 2 ounces of zinc per square foot.

ROHN No. 45 tower sections are completely hot-dip galvanized after fabrication to give permanent protection against corrosion. This completely covers every square foot of tower surface with a minimum of 2 ounces of zinc.

RATING

This tower has a rating as follows: At 200 feet it will withstand a 30 lb. per square foot wind-load (equivalent to 86.6 MPH true wind velocity) when guyed and installed according to specifications. This includes an antenna with an area of 6 square feet plus 2 transmission lines.

In a 30 lb. per square foot wind load (86.6 MPH true wind) the tower can be installed to a height of 300 feet with an antenna load equivalent of 8 square feet of surface plus 2 transmission lines.



Illustrated here is a No. 45 tower installed to a height of 300 feet.

ROHN[®] TOWERS

TOWER No. 55

RIGID TUBE C-J SERIES

DESIGN

The ROHN No. 55 Tower lends itself to a wide variety of uses where greater height is needed and/or antenna load requires a more rugged tower. Sleeves are used in joining tower sections together for greater strength.

Called "the straightest towers ever built", the ROHN Rigid-Tube Towers feature all bolted construction . . . available knocked-down for economy and ease in shipping. Knock-down feature cuts cube up to 500%.

CONSTRUCTION

Constructed on an 18½ inch equilateral triangle pattern, utilizing 1½ inch x ⅛ inch high quality steel side rails. Each section is 10 feet in length. Cross bracing is formed by a continuous ⅞ inch solid rod fashioned into a zig-zag shape, joining side rails every 15¾ inch, electrically welded throughout.

This series offer towers of 18" (J Series), 24" (C Series) triangular configuration with varying size steel legs of from 10 to 14 gauge, from 1½" to 3" O.D. and from 20 ft. to 10 ft. sections respectively.

FINISH

All tower sections completely hot-dip galvanized after fabrication to permanently protect all points of welding and construction against corrosion—and add enduring beauty to the tower. A minimum of 2 ounces of zinc per square foot of surface is used.

C Series Towers come in hot dip galvanized finish after fabrication according to ASTM specification A-123 which gives a minimum of 2 oz. of zinc per square foot of surface. Hardware meets ASTM specification A-153.

RATING

When properly guyed at 400 feet this is a 30 lb. per square foot tower, able to hold 10 square feet of antenna plus 2 transmission lines.

C Series rated 400 feet and J Series to 300 feet depending on wind load and antenna loading (check Engineering Department recommendations) for special applications.



ROHN[®] TOWERS

TOWER No. 80 TOWER No. 90

DESIGN

This tower is designed specifically for microwave installations and heavy duty communication and broadcast uses.

The Model 90 Tower is designed specifically for heavy microwave loads and TV broadcast where large top mounted UHF or VHF transmitting antennas are required. However, the ROHN Model 90 Tower can be used for other communications and meteorological applications of tall heights or where inside climbing facilities are required.

CONSTRUCTION

The No. 80 tower is constructed in an equilateral triangular pattern with steel legs and cross-bracing in a pattern as indicated by the insert. The triangular size is 41" on leg centers and the diameter and weight of the tower legs varies to meet the requirements of the installation. *This feature permits considerable flexibility in supplying a tower tailored to specifically meet and adequately handle the antenna to be installed.* Cross-bracing is of tubular steel with bolted construction.

The ROHN Model 90 is constructed of an equilateral triangle pattern, 5 ft. on leg centers. All bolted steel construction, of variable size tubular legs and angle braces, provide a wide range of design conditions.

FINISH

All components of this tower are completely hot-dip galvanized *after fabrication* to protect all areas of the tower. A minimum of 2 ounces of zinc per square foot of surface is applied throughout including bolts.

All components of these towers are completely hot dip galvanized after fabrication to protect all areas of the tower, including both inside and out of tower legs. A minimum of 2 ounces of zinc per square foot of surface is applied throughout, including bolts and nuts.

RATING

This tower is rated for installation to maximum height of 800 feet using variable size and weight of tubular steel components. Each tower is engineered to handle a particular job as far as antenna and loading requirements.

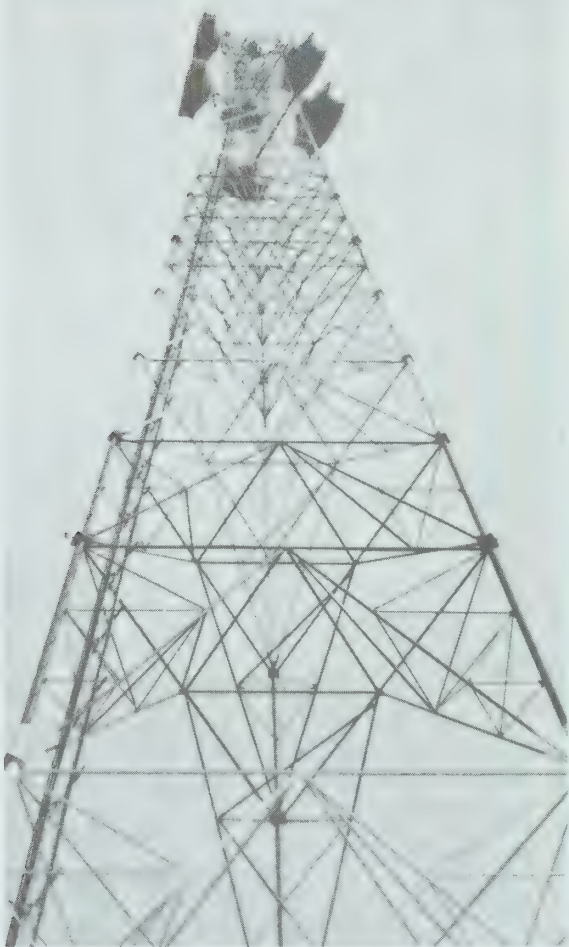
The ROHN Model 90 Tower is rated for heights up to and exceeding 800' depending on local conditions.



ROHN NO. 90 TOWER installed to 800 ft. for CATV, FM and TV.

ROHN[®] COMMUNICATION TOWERS

SSV SELF-SUPPORTING TOWER



Here is a superbly designed, unique tower series that fills a wide range of needs because of their extraordinary versatility! Widely used for all types of communication, broadcasting, microwave and industrial needs, the ROHN SSV series has many outstanding features to make it worthy of consideration for your requirements.

Outstanding Features of the **ROHN[®] "SSV" Series Towers . . .**

- Designed for a minimum wind load of 30 psf. Towers requiring higher wind or ice loads are no problem due to the tower's amazing versatility.
- Standard designs available in heights to 500 feet depending on loading. Special towers available depending on specific requirements.
- The SSV series make use of primarily knock-down construction for on-site assembly, which reduces shipping costs.
- Towers for minimal loadings are available in welded construction in heights up to 60 feet, shipped in 20 foot sections.
- All components and hardware are Hot Dip Galvanized after fabrication with a zinc coating per E.I.A. Standards.
- All ROHN SSV series towers are engineered, designed and fabricated to meet or exceed latest E.I.A. specifications.

ROHN[®]

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TERMS AND CONDITIONS RELATING TO ALL SALES

1. All quotations, proposals, prices, or other terms are made for acceptance within 60 days (after 60 days, prices in effect at time of shipment will apply) and shipment within 60 days of purchase order date, unless otherwise stated. They are subject to change without notice; however, we invite your request for an extension. They are also subject to Credit and Marketing Department approval prior to acceptance. No other price protection is available.
2. Every effort will be made to maintain shipping schedules. All deliveries and schedules are contingent on availability of raw materials, fuel, and transportation. We will not be liable for damages on account of any delays due to causes beyond our reasonable control. Rohn reserves the right to make partial shipments and to submit invoices accordingly.
3. Changes or modifications to orders can be made only by written agreement executed by all parties affected thereby, which agreement shall include any price modification.
4. Rohn's responsibility ceases upon delivery of all shipments to the carrier. The unloading of all shipments is the responsibility of the customer, not the carrier or Rohn. Buyer is warned against receipting for merchandise until careful inspection has been made. Any claim made against Rohn must be made within 90 days after receipt of merchandise. All merchandise leaving Rohn's factory has been carefully inspected and Rohn does not assume responsibility for damages or shortages which occur in transit. Buyer must make all claims and report all damages and losses to the delivering transportation company.
5. No federal, state, or local taxes are included in quoted prices. All quotations, proposals, prices, or other terms are subject to increase without notification by the amount of any sales, excise, or other tax levied or charged to seller by any governmental agency and any such tax will be passed onto purchaser as a tax or as an addition to the selling price. This also applies to any costs incurred due to local statutes or governmental regulations.
6. Orders are not subject to cancellation by buyer except by written agreement with seller. Any order cancelled, after any work has been done by Rohn, such as engineering, production, etc., will have a cancellation charge, to be determined solely at the discretion of Rohn for whatever work has been performed with a minimum of 10% of the purchase order price. If customer so chooses, he shall have the right to receive the material already performed at time of cancellation at the quoted price. If an order is cancelled before any work has been done by Rohn, a \$200 cancellation charge will apply.
7. Material received may not be returned by buyer except by written agreement with seller. In all cases, permission must be secured from Rohn prior to the returning of any goods for credit. All returned goods are subject to a minimum service charge of 20%, plus all transportation charges, and are subject to inspection by Rohn. Returned goods will be offered and paid for only upon proof of purchase (i.e. invoice no.) and credit will be issued against invoice value. Rohn reserves the sole right to determine amount of credit to be issued on all goods returned for credit. Only standard, currently manufactured Rohn products may be considered for return and credit. Unsaleable products will be scrapped and no credit will be received. If returned goods are determined to have no value and buyer wishes them returned, the buyer will be charged return freight.
8. Rohn warrants the commercial items of its manufacture only, to be reasonably fit for the purpose for which they are manufactured and sold, provided, however, that this warranty shall be effective only if purchaser installs all material according to Rohn's recommendations and specifications and that purchaser during the warranty period shall regularly, not less than semi-annually, inspect and properly maintain all items. Any item found unfit for its purpose within 12 months from date of delivery will be repaired or replaced free of charge, F.O.B. Rohn's plant. Rohn shall be immediately notified in writing of such unfitness.
Rohn reserves the sole right to determine if any material is to be repaired or replaced free of charge or to be supplied at Rohn's standard prices. Such obligation shall be limited to parts returned for inspection, properly packed and expenses prepaid, and providing inspection shall satisfactorily indicate defects.
The warranty herein made is in lieu of all other warranties and, except as expressly stated herein, Rohn does not make and there are no warranties or obligations of any kind or nature whatsoever either expressed or implied including, but not restricted to, warranty or obligations as to design, material, workmanship, or manufacture or as to the use of the items covered hereby. Rohn shall not under any circumstances be liable to third persons for any claims or damages including direct, special, indirect, or consequential damages for any reason. The buyer agrees to indemnify and to hold Rohn harmless for, of, and from any loss, claims, damages, expenses and attorney's fees, including but not limited to, any fines, penalties and corrective measures Rohn may sustain by reason of the Buyer's failure to comply with said laws, rules, and regulations in connection with the performance of this sale.
The above Warranty applies only to items manufactured by Rohn. Items not manufactured by Rohn are warranted and guaranteed only to the extent and in the manner warranted and guaranteed to Rohn by the manufacturer of such items and then only to the extent Rohn is liable to enforce such warranty or guaranty.
Rohn will assume no responsibility for the adequacy of any product if material is used which is not totally supplied by Rohn.
The above sets forth the only warranty made by Rohn in connection with items manufactured or sold by it, and any provisions in any proposals, specifications, advertising, or other provisions hereof, are merely descriptive and are not to be construed as warranties made by Rohn.
All warranties are void on drawings made by others, whether by a professional engineer, sealed or not, that are not rechecked by Rohn and approved by Rohn. Rohn assumes no liability for the adequacy of the drawings or the design.
9. Rohn reserves the right to change or modify the design and construction of any product manufactured by Rohn and to substitute material equal to or superior to that originally specified.
10. Buyer agrees not to disclose or make available to any third party designs, processes, drawings, specifications, reports, photographs, data, and other technical or proprietary information relating to Rohn products without obtaining prior written consent of Rohn.
11. No proposal, order, quotation, or acceptance may be changed or varied by verbal agreement, and all orders are accepted only under the provisions set forth herein.
12. Purchase orders and requests for quotations must be submitted in writing to Rohn.
13. If outside source inspection, assembly, etc. is required prior to shipment of an order, \$50.00 per man hour (plus equipment time, if applicable) is chargeable, with \$300.00 as a minimum.
14. Any welding inspection required by customer or customer's specifications must be done at Rohn's plant prior to packing and shipment of material from Rohn's plant.
15. A minimum charge of \$25.00 will be billed for special handling and preparation of material for air shipments.
16. Rohn reserves the right to apply all remittances and credit memos to the oldest outstanding balance in your account. No credits will be issued for any reason against a purchase order whose billing is more than 90 days old. Customer corrections or complaints must be made within this period of time.
17. Standard catalog prices do not include special drawings or engineering stress analyses. If any are required, there will be a charge.
18. Rohn at all times reserves the right to take pictures of any or all of its products after installation for advertising purposes, except those which are under classified governmental control.
19. The customer will be responsible for any extra charges incurred on prepaid shipments. Any F.O.B. order shipped from Reno, Dallas, Birmingham, Frankfurt, or Bridgeport will incur a 10% inbound freight, plus 7% warehouse and handling charge, and will be shipped F.O.B. shipping point.
20. A service charge not to exceed 2% per month of maximum allowable per State law will be billed on all accounts not paid within 30 days of invoice date.
21. Minimum total net worth of merchandise which can be ordered is \$100.00. Any orders placed for less will be billed at \$100.00.
22. Any purchase order, which is placed under a "hold order" for over five (5) days by the customer for any reason, will be subject to a 1% per month storage charge, plus a 2% per month interest charge for a total of 3% per month, from the date of the hold until the order is released.
23. All CIA requirements must be met with certified checks or money orders to insure prompt shipment.
24. All expenses incurred by Rohn during any collection effort shall be charged to the customer.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

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ROHN®

25G TOWER

HOT DIP GALVANIZED

GENERAL USE

General Purpose Communication or Heavy-Duty TV Tower. The 25G will satisfy a tremendously wide range of tower needs.

DESIGN

Built on a 12½" equilateral triangular design with continuous steel "zig-zag" cross-bracing entirely electric welded and fabricated in precision equipment. The 8" "zig-zag" braces per 10' section mean more than usual strength.

CONSTRUCTION

Unequalled Sturdiness . . . Extra heavy-duty 1¼" steel tubing is used for side rails, resulting in far greater strength and sturdiness than ordinarily found in this size tower. SUPERIOR STRENGTH . . . has always been foremost in ROHN towers. This is achieved by setting rigid high standards for the steel used. These standards are constantly maintained by scientific testing according to accepted laboratory procedures so quality never varies! It's a natural conclusion that when quality ingredients are combined with precision manufacturing and proven design the result is a higher quality product!

FINISH

Famous ROHN Hot-Dip Galvanized long-life finish . . . the most durable coating ever known. Rust-proofs and gives an always attractive appearance. *Every inch*, including *inside* of entire tower, evenly and completely covered with zinc *after* fabrication.

ENGINEERING DATA

ROHN superior engineering means advanced design . . . this results in the best tower for the needs of today! This is proven because here is a tower at least 33% stronger and more durable than similar size and type towers found on the market today. At the same time, the ROHN production system means lower costs . . . giving you a tower actually costing less than inferior towers. Get the best . . . look at the No. 25G carefully and you'll agree.

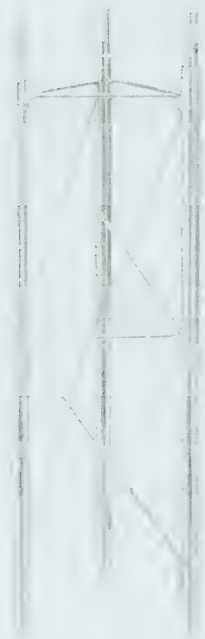
SPECIAL FEATURES

The No. 25G uses double-bolted joints . . . proven the best method of joining tower sections for sturdiness and dependability. The extra strength of the No. 25G allows it to be self-supporting provided a house bracket is used and can go 35 feet above this bracket under normal conditions. (see instruction sheet) Under most guyed conditions the No. 25G is suitable to heights of 200 feet! Where special conditions or unusual antenna loading requirements must be met, we suggest you contact the Sales Department for complete information. Assembly bolts and nuts are located within 1 leg of each tower section.

ROHN®

6718 W. Plank Road
P.O. Box 2000
Peoria, IL 61656
TWX: 910-652-0646 FAX: 309-697-5612
PHONE: 309-697-4400

BASES



SB25G
3' 4" SHORT BASE
section for concrete



SBH25G*
3' 4" HINGED SHORT BASE
section for concrete



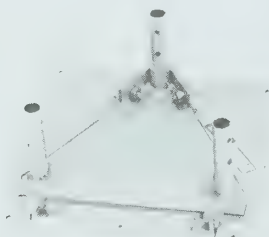
DR25G *
2' DRIVE RODS
set of 3



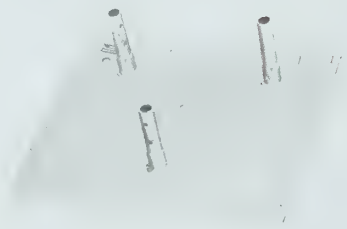
DT25
DRIVE TOOL
for DR 25G



BP25G*
BASE PLATE
(for use with drive rods)



BPH25G*
HINGED BASE PLATE
for concrete



BPC25G*
CONCRETE BASE PLATE



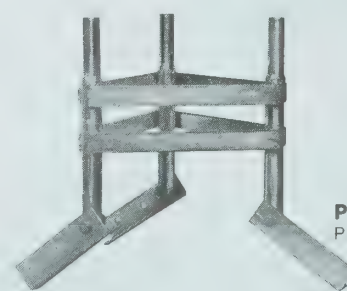
20BG
3' TOP SECTION



FR25G*
FLAT ROOF MOUNT



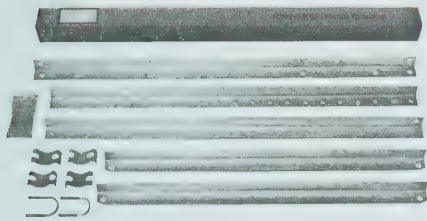
SDB25G*
SINGLE DRIVE-IN BASE



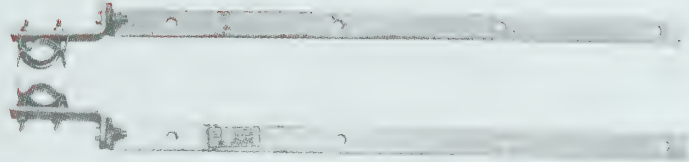
PR25G*
PEAK ROOF MOUNT

*NOTE: TOWERS MOUNTED ON THESE BASES MUST BE BRACKETED OR GUYED AT ALL TIMES. TEMPORARY STEEL GUYING MAY ALSO BE NECESSARY DURING INSTALLATION OR DISMANTLING. COPYRIGHT 1986 ROHN. ALL RIGHTS RESERVED. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

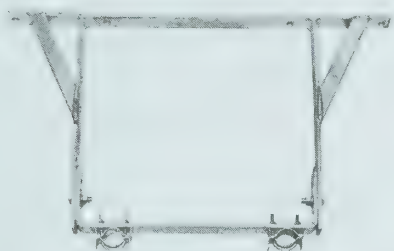
BRACKETS



HBU
UNIVERSAL HOUSE BRACKET



EB2525G
UNIVERSAL EAVE BRACKET



HB25AG 0-15"
HB25BG 0-24"
(not shown)
HB25CG 0-36"
(not shown)
ADJUSTABLE HOUSE BRACKET



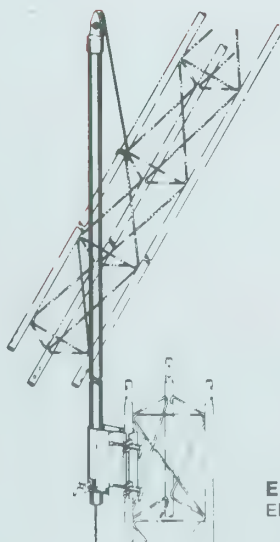
GA25G
GUY ASSEMBLY
with torque bars

GB25G
GUY BRACKET ONLY
without torque bars

SAFETY



SR 245
SAFETY RING



For lifting
1 - 10' section
at a time

EF 25 45
ERECTION FIXTURE

2-½" sheave
with ⅜" I.D. groove



25ACL
ANTI-CLIMB SECTION

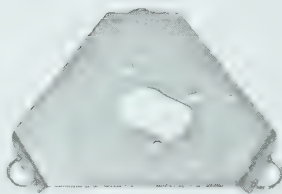
ACCESSORIES



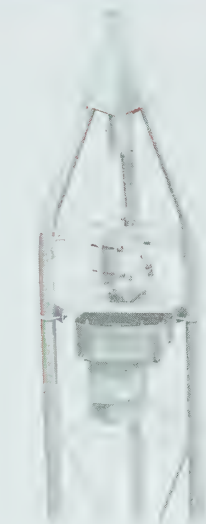
RP25G
ROTOR POST



RP25G CM
SPECIAL ROTOR POST



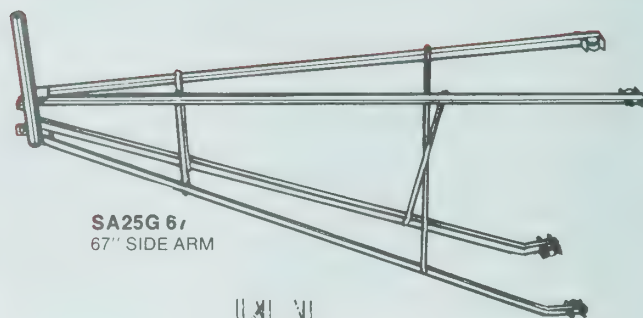
AS25G
ACCESSORY SHELF
(for mounting Ham-M rotor.)



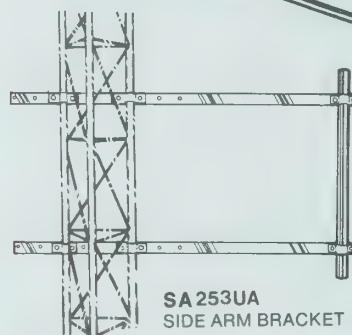
AS25G on 25AG
Top Section with Hy Gain Model 400 Rotor
(must be redrilled.)



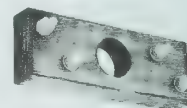
TB50 1 1/4" ID, 2" OD
TOWER BUSHING
for use in 20AG or 25AG Top Section
TB75 1 1/2" ID, 2" OD
(not shown)



SA25G 67"
SIDE ARM



SA253UA
SIDE ARM BRACKET



AB
HARDWOOD BEARING
for use on 25AG-4 Top Section
for 2" OD tubing

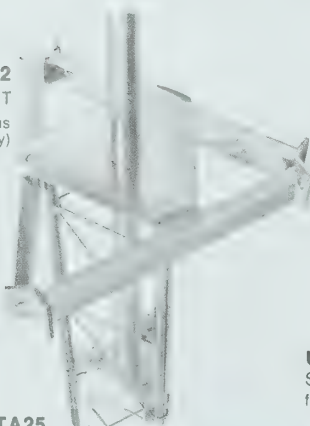


DM25G 2
FACE DISH MOUNT
for 4 foot grid dish maximum

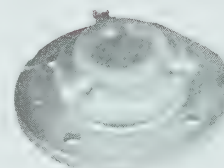


APL25G
TOP BEACON PLATE

25TDM2
TOP DISH MOUNT
(see drawing Page C-760786 for various
sizes and assembly)



TA25
TORQUE ARM STABILIZER
ASSEMBLY



TB3
THRUST BEARING
2" O.D. TUBING

TB4
THRUST BEARING
3" O.D. TUBING
(not shown)



BAS25G
BEARING/ACCESSORY
SHELF

UHF25G
SIDE ARM MOUNT
for UHF & FM antennas



ADDITIONAL INFORMATION

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

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#25 TOWER

<u>PART NUMBER</u>		<u>WT.</u>
25G	10' tower section	40
20BG	3' top section for use as home TV top section	8-1/2
25AG	9' top section for use as home TV top section	31
<u>ST25AG</u>	5' short top section for use as home TV top section	18
<u>/ 25AG1 /</u>	Top section for use with communication antenna. Mast support tube is 1-1/4" galv. pipe, threaded on top and projecting 12" above apex of side rails.	31
25AG2	Top section for use with communication antenna. Mast support tube is 2-1/4" O.D. tubing, 36" total length, extending 18" above apex of side rails.	31
25AG3	Top section for use with communication antenna. Mast support tube is 2-1/4" O.D. tubing, extending 12" above apex of side rails. A 2" O.D. antenna stub will fit snugly inside support tube.	31
25AG4	8' top section for use with communication antenna. Upper end terminates in 11" dia. flat, circular plate with 2-1/4" dia. hole in center.	31
<u>/ 25AG5 /</u>	Top section for use with communication antenna. Mast support tube is 2-3/4" O.D. and 2-9/16" I.D. tubing, 18" total length.	31
25TG	10' tapered base section (sits on a pier pin - order pier pin separately)	60
*25RG	10' insulator section for 25G tower (includes three #10470 post insulators)	74
25ACL	10' anti-climb section (for #25 and #20 towers)	115
<u>/ 25ACL3 /</u>	3 anti-climb metal sheets for attaching to tower section	65
25JBK	Joint bolt kit	1/2
APL25G	Beacon plate	14
SB25G	3'4" short base section for use in concrete	10
*SBH25G	3'4" hinged short base section for use in concrete	14
*SDB25G	Single drive base for use on top of ground	20
*BPC20G	Concrete base plate (sits on a pier pin - order pier pin separately)	13
*BPC25G	Concrete base plate (sits on a pier pin - order pier pin separately)	27
3/4x12PP	Pier pin (for BPC20G, BPC25G, or 25TG - one required)	1
*BPH25G	Hinged base plate for concrete	21
1/2x12BB	Concrete base bolt with double nuts (for BPH25G - four required)	1/2
*FR25G	Flat roof mount	24
*PR25G	Peak roof mount	14
*BP25G	Base plate (for use with drive rods)	7
*DR25G	2" drive rods (set of 3)	6
DT25	Drive tool	1
RP25G	Rotor post	3
RP25GCM	Rotor post	2
AS25G	Accessory shelf. Triangular plate for mounting Ham "M" rotor or mast bearing. Mounts inside of tower. When using Model 400 Rotor, plate must be redrilled.	4
GA25G	Guy assembly (bracket with torque bars)	10
GB25G	Guy bracket only	6
HB25AG	Adjustable house bracket (0 to 15")	8
HB25BG	Adjustable house bracket (0 to 24")	11
HB25CG	Adjustable house bracket (0 to 36")	17
HBU	Universal house bracket (6" to 30")	15
EB2525G	Eave bracket (universal)	7
TB50	Tower bushing for 25AG and ST25AG tops (1-1/4" I.D. x 2" O.D.)	1/2
TB75	Tower bushing for 25AG and ST25AG tops (1-1/2" I.D. x 2" O.D.)	1/2
AB	Amateur bearing for use with 25AG4 top (2" x 4" x 10" hardware)	1
TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing	2-1/2
TB4	Heavy duty thrust bearing, recommended for 3" O.D. tubing	3
BAS25G	Bearing/accessory shelf section for mounting AB, TB3, or TB4 bearing and rotor	18
UHF25G	Side arm mount for UHF and FM antennas	4
SA253UA	Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube	28
SA25G67	67" side arm with 1-1/4" I.D. support tube for mounting TV receiving antenna (not recommended and must be guyed to resist twist)	25
<u>**TA25 /</u>	Torque arm stabilizer assembly	35
<u>/ **25TDM2 /</u>	Top dish mount w/2" O.D. mast (extends 2' above top plate)	40
<u>/ **25TDM2SP /</u>	Top dish mount w/2" standard pipe (extends 3' above top plate)	50
<u>/ **25TDM2EH /</u>	Top dish mount w/2" EH pipe (extends 3' above top plate)	60
<u>/ **25TDM25SP /</u>	Top dish mount w/2-1/2" standard pipe (extends 3' above top plate)	65
<u>/ **DM25G2 /</u>	Face dish mount w/2" (2-3/8" O.D.) 5' long standard pipe	42
WP25G	Work platform (for #25 and #20 towers)	10
SR245	Safety ring	8
EF2545	Aluminum erection fixture, 12' long (fits all models with 1-1/4" side rails) (use to raise one 10' section at a time)	18
P2545	Pole only for EF2545	10
H2545	Head only for EF2545	8

*Towers mounted on this base must be bracketed or guyed at all times.

**This item is not to be used without proper design consideration.

/ Available by special order only. Allow 60 days for delivery. /

The #20 tower is not recommended for commercial, ham, CB or guyed installations.

NOTE: The price on #25 sections will be higher on shipments to the following states: Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.

Refer to alphabetical/numerical price list for current prices.

REFERENCE SHEET AND ASSEMBLY INFORMATION

#25 BRACKETED TOWERS, NON-GUYED

(See Rohn Catalog for Guyed Tower Information)

INSTALLATION: Select a tower location sufficiently clear and out of falling distance of power lines since every electrical and telephone wire should be considered dangerous. The only safe distance from power lines is at least twice the height of tower, mast, and antenna. Tower should be installed by experienced and trained personnel. All antenna installations must be grounded per local or national codes.

BASE: The size of the hole for concrete placement for a 50' #25 tower, with a house bracket 12' aboveground, is 3' deep by 18" square. For cases of loose soil, etc., the hole must be larger. Spread about 2" of gravel in bottom of hole prior to setting short base or tower section. After setting short base or tower section on gravel, fill another 3" with gravel around legs. This allows the tower legs to extend the required amount below the bottom of the concrete, thus allowing for drainage of moisture into the gravel. The first 10' section should be leveled, plumbed, and temporarily guyed or braced while pouring the concrete. This will insure a plumb tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull tower up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

HEIGHT OF TOWER & BRACKET USES: House brackets must be used and must be mounted at least 12' aboveground to be effective. The #25 tower should not extend more than 33' above a house bracket. (Note: Two house brackets are to be used, equally spaced, on the 80' tower.) To secure the house bracket, use lag screws no smaller than 3/8" x 2". A special effort must be made to locate the house bracket such that the lag screws go through the siding into a stud. Brackets fastened to the siding only will not hold. Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.

BOLTS: Nuts and bolts are located in tower legs. Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6-1/2" length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

MISCELLANEOUS: Installation is greatly hastened and simplified by the use of an erection fixture. Do not use it to lift more than the weight of one tower section at a time. Anti-climb sections are recommended for all towers to prevent unauthorized persons from climbing tower.

CAUTION: ... Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. Hinge no more than 33' of #25 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any type of hinge base or hinge section, the loads applied for hinging the tower must be applied equally on both sides of tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

All information is based upon antennas with not more than 2 square feet of area in a 20 psf (70 mph) wind load and a safety factor, with antenna installed at tower apex.

Our catalog information excludes roof installations. Local engineers must be consulted to determine adequate base and anchor details for all roof type installations.

NOTE: All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance. A safety package (part number ACWS) is available which includes one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

Dismantling of any tower should be done by professional and experienced installers a section at a time with the use of an erection fixture. Temporary steel guys may be necessary at the 10' level.

PART NUMBER

25G030BRKT	30' Complete Bracketed Tower
25G040BRKT	40' Complete Bracketed Tower
25G050BRKT	50' Complete Bracketed Tower
25G060BRKT	60' Complete Bracketed Tower
25G070BRKT	70' Complete Bracketed Tower
25G080BRKT	80' Complete Bracketed Tower

Refer to alphabetical/numerical price list for Reference Sheet Prices on Complete #25G bracketed Towers.

ROHN

Assembly Information

Bracketed #20 and #25 Towers, Non-Guyed

(See Rohn Catalog for Guyed Tower Information)

SITE SELECTION: Select a tower location sufficiently clear and out of falling distance of power lines since every electrical and telephone wire should be considered dangerous. The only safe distance from power lines is at least twice the height of tower, mast, and antenna combined. Tower should be installed and dismantled by experienced and trained personnel. All antenna installations must be grounded per local or national codes.

BASE: The size of the hole for concrete placement for a bracketed #20 tower, with a house bracket 12' aboveground, is 3' deep by 18" square. The hole for a bracketed #25 tower is 3' deep by 18" square. For cases of loose soil, etc., the hole must be larger. Spread about 2" of gravel in bottom of hole prior to setting short base or tower section. After setting short base or tower section on gravel, fill another 3" with gravel around legs. This allows the tower base legs to extend the required amount below the bottom of the concrete, thus allowing for drainage of moisture into the gravel. The first 10' section should be leveled, plumbed, and temporarily guyed or braced while pouring the concrete. This will insure a plumb tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull tower up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

HEIGHT OF TOWER & BRACKET USES: House brackets must be used and should be mounted at least 12' above-ground to be effective. The #20 tower should not extend more than 28' (maximum) above a house bracket and the #25 tower should not extend more than 33' (maximum) above a house bracket. (Note: Two house brackets are to be used, equally spaced, on the 80' #25 tower.) To secure the house bracket, use lag screws no smaller than 3/8" x 2". A special effort must be made to locate the house bracket such that the lag screws go through the siding into a stud. Brackets fastened to the siding only will not hold. Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.

BOLTS: Nuts and bolts are located in tower leg. Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6-1/2" length. If bolts cannot be pushed through the holes with the heel of a hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

MISCELLANEOUS: Installation is greatly hastened and simplified with the use of an erection fixture. Do not use it to lift more than the weight of one tower section at a time. If the antenna is to be fixed and a set screw used in the mast housing, or if a rotator is to be mounted on a short length of mast above the tower top section, install a TB50 tower bushing at bottom of the mast housing to center the mast in the mast housing. These bushings are "peened" in place. If the rotator is to be mounted inside the top section of the tower, do not install a TB50 tower bushing at bottom of mast housing. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower.

CAUTION ... Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. Hinge no more than 33' of #25 or 28' of #20 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any hinged type base or hinge section, the loads applied for hinging the tower must be applied equally on both sides of the tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

Our catalog information excludes roof installations. Local engineers must be consulted to determine adequate base and anchor details for all roof type installations.

All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance. A safety package (part number ACWS) is available which includes one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

Dismantling of any tower should be done by professional and experienced installers a section at a time with the use of an erection fixture. Temporary steel guys may be necessary at the 10' level.

All information is based upon average antennas, with no more than 2 square feet of area in a 20 psf (70 mph) wind load and a safety factor, with antenna installed at tower apex.

"WARNING: INSTALLING OR DISMANTLING THIS PRODUCT NEAR POWER LINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE SAFETY DIRECTIONS."

INSTALLATION AND DISMANTLING SAFETY INSTRUCTIONS -- YOU, YOUR ANTENNA, AND SAFETY

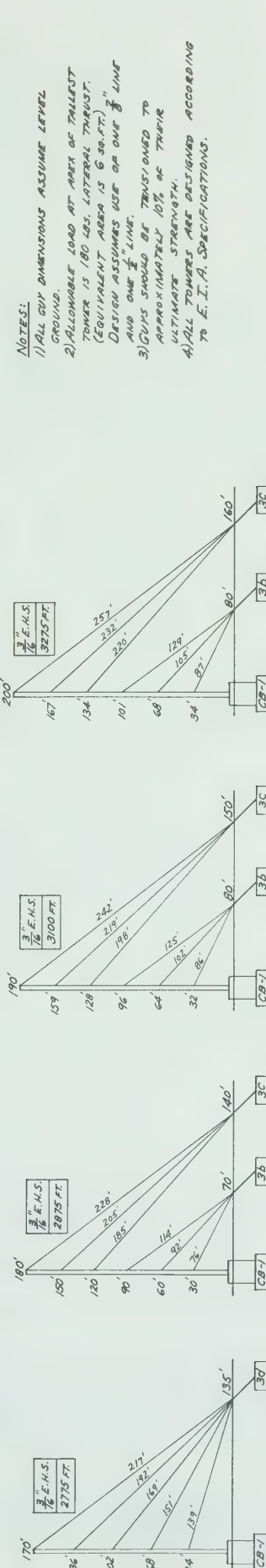
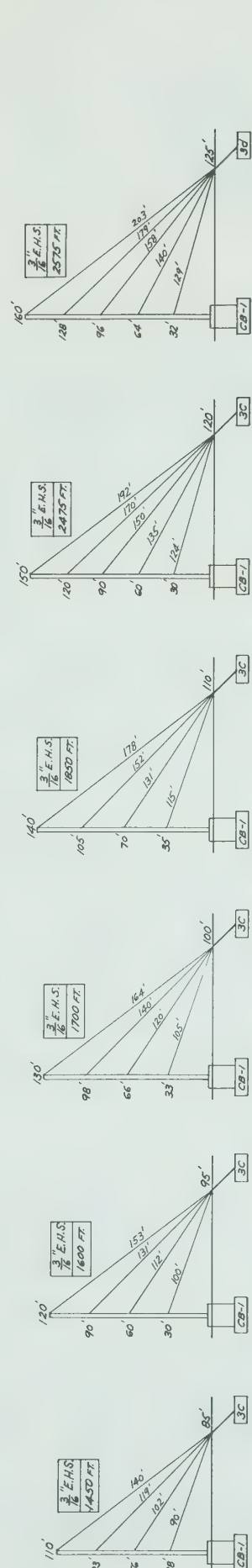
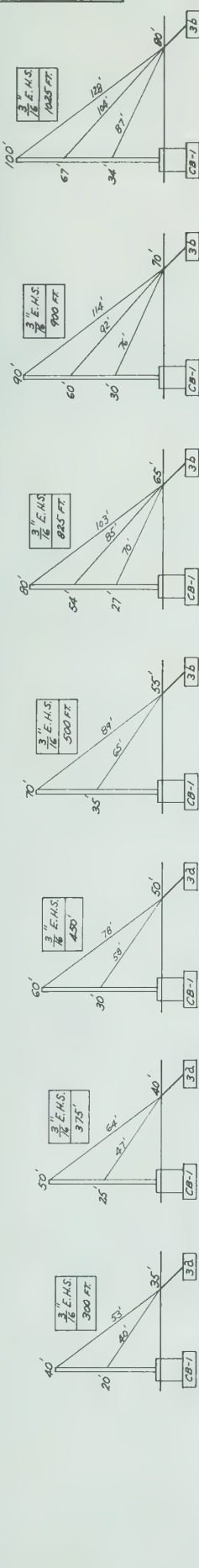
Each year hundreds of people are killed, mutilated, or receive severe permanent injuries when attempting to install or dismantle an antenna. In many of these cases, the victim was aware of the dangers of electrocution but did not take adequate steps to avoid the hazard.

For your safety and to help you achieve a SAFE installation, please READ and FOLLOW the safety precautions below. THEY MAY SAVE YOUR LIFE!

1. If you are installing or dismantling an antenna for the first time, please, for your own safety as well as others, seek PROFESSIONAL ASSISTANCE. Consult your dealer. He can explain which mounting or dismantling method to use for the size and type antenna you are about to install or dismantle.
2. Select your installation site with safety, as well as performance, in mind. (See information on Site Selection.) REMEMBER: POWER LINES AND PHONE LINES LOOK ALIKE. FOR YOUR SAFETY, ASSUME THAT ANY OVERHEAD LINES CAN KILL YOU.
3. Call your power company. Tell them your plans and ask them to look at your site. This is little inconvenience, considering YOUR LIFE IS AT STAKE.
4. Before you begin, plan your installation or dismantling procedure carefully. Successful installation or dismantling of a mast or tower is largely a matter of coordination. Each person should be assigned to a specific task and should know what to do and when to do it. One person should be designated as the "boss" to call out instructions and watch for signs of trouble.
5. When installing or dismantling your antenna, REMEMBER: DO NOT use a metal ladder. DO NOT work on a wet or windy day or if a thunderstorm is approaching. DO dress properly -- shoes with rubber soles and heels, rubber gloves, long sleeve shirt or jacket.
6. If the assembly starts to drop, get away from it and let it fall. REMEMBER: The antenna, mast, cable, and metal guy wires are all excellent conductors of electrical current. Even the slightest touch of any of these parts to a power line completes an electrical path through the antenna and the installer -- THAT'S YOU!
7. If any part of the antenna system should contact a power line -- DON'T TOUCH IT OR TRY TO REMOVE IT YOURSELF. CALL YOUR LOCAL POWER COMPANY. They will remove it safely.
8. If an electrical accident should occur -- DON'T grab hold of the person in contact with the power line or you too will be electrocuted. Use a DRY board, stick or rope to push or pull the victim away from the antenna. If the victim has stopped breathing, administer artificial respiration -- and stay with it. Have someone call for medical help.

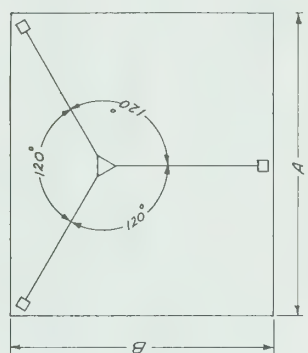
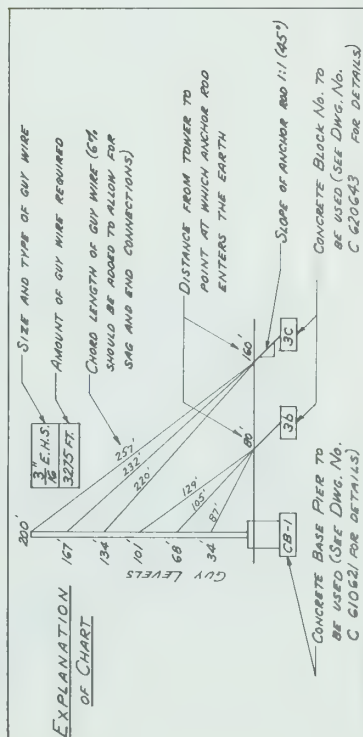
SITE SELECTION: Before attempting to install your antenna, think where you can best place your antenna for safety and performance. To determine a safe distance from wires, power lines, and trees: 1) Measure the height of your antenna; 2) Add this length to the length of your tower or mast; and then, 3) Double this total for the minimum recommended safe distance.

If you are unable to maintain this safe distance, STOP! GET PROFESSIONAL HELP. Generally, the higher the antenna is aboveground, the better it performs. Good practice is to install your antenna above the roof line and away from power lines and obstructions. Remember that the FCC limits your CB antenna height. If possible, find a mounting place close to your set, where the antenna wire can take a short, vertical drop on the outside of the house for entry through a wall or window near the set. Your dealer carries a complete line of installation and grounding hardware.



NOTES:
 1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
 2) ALLOWABLE LOAD AT AREA OF TALLEST TOWER IS 180 LBS. LATERAL THRUST. (EQUIVALENT AREA IS 6 SQ. FT.)
 DESIGN ASSUMES USE OF ONE 3/8" LINE AND ONE 1/2" LINE.
 3) GUYS SHOULD BE TRANSMISSION TO APPROXIMATELY 10% OF THEIR APPROXIMATE STRENGTH.
 4) ALL TOWERS ARE DESIGNED ACCORDING TO E.I.A. SPECIFICATIONS.

EXPLANATION OF CHART



FOR SPACE REQUIREMENT
 REFER TO DWG. NO. C640531

REVISIONS		DATE		BY	
NO.	DESCRIPTION	DATE		BY	
1	H.S. GUY WIRE TO E.H.S. GUY WIRE	8-21-79		ALC	
RE ADDED EIA DESIGNATION TO TITLE BLOCK		2-17-79		W3	
R3 0-200' WAS 0-300'		1-10-86		W3	

DRAWN AED		CHECKED C.K.		APPROVED RAL		DATE 6-23-64		SCALE NONE	
TITLE		GUYING DETAILS		MODEL 25 TOWER		DRAWING NO.		C 640603 R3	
WIND LOAD = EIA ZONE "A"		0-200' = 30 PSF		ROHN MANUFACTURING		PEORIA, ILLINOIS			

PARTS LIST #25G GUYED TOWER

Zone "A" Wind Load

6 Sq. Ft. of Allowable Load

Tower Height	25G	25AG2	BPC25G with 3/4"x12" PP	APL25G and SA253UA	GA25G	G.W. 3/16" E.H.S.	C.C.M. 3/16"	TH. 1/4"	T.B. 3/8"x6" E&E	GAC 253	GAC 255
40'	3	1	1		2	300'	36	12	6	3	
50'	4	1	1		2	375'	36	12	6	3	
60'	5	1	1		2	450'	36	12	6	3	
70'	6	1	1		2	500'	36	12	6	3	
80'	7	1	1		3	825'	54	18	9	3	
90'	8	1	1		3	900'	54	18	9	3	
100'	9	1	1		3	1100'	54	18	9	3	
110'	10	1	1		4	1500'	72	24	12		3
120'	11	1	1		4	1600'	72	24	12		3
130'	12	1	1		4	1700'	72	24	12		3
140'	13	1	1		4	1850'	72	24	12		3
150'	14	1	1		5	2500'	90	30	15		3
160'	16		1	1	5	2575'	90	30	15		3
170'	17		1	1	5	2775'	90	30	15		3
180'	18		1	1	6	2875'	108	36	18	6	
190'	19		1	1	6	3100'	108	36	18	6	
200'	20		1	1	6	3275'	108	36	18	6	

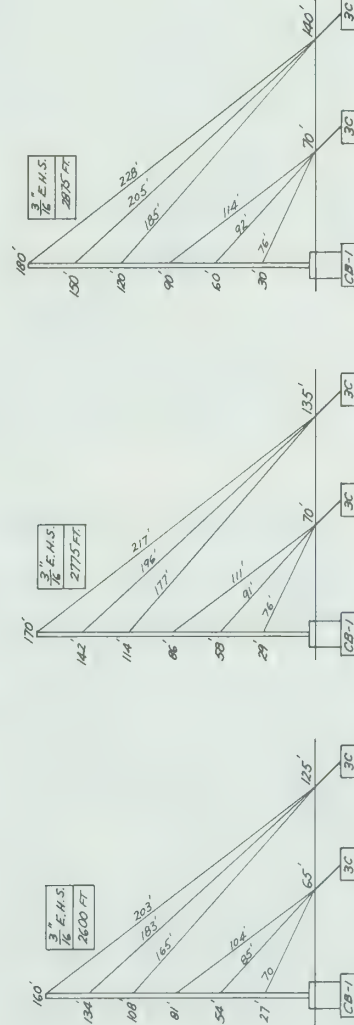
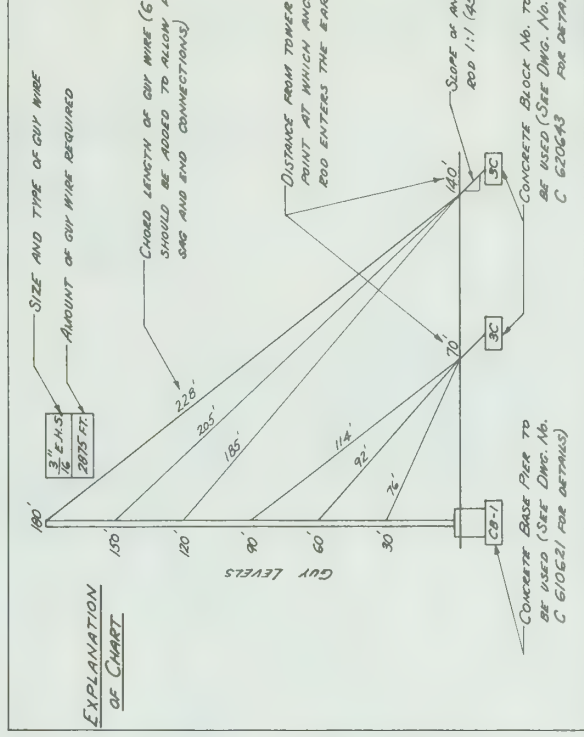
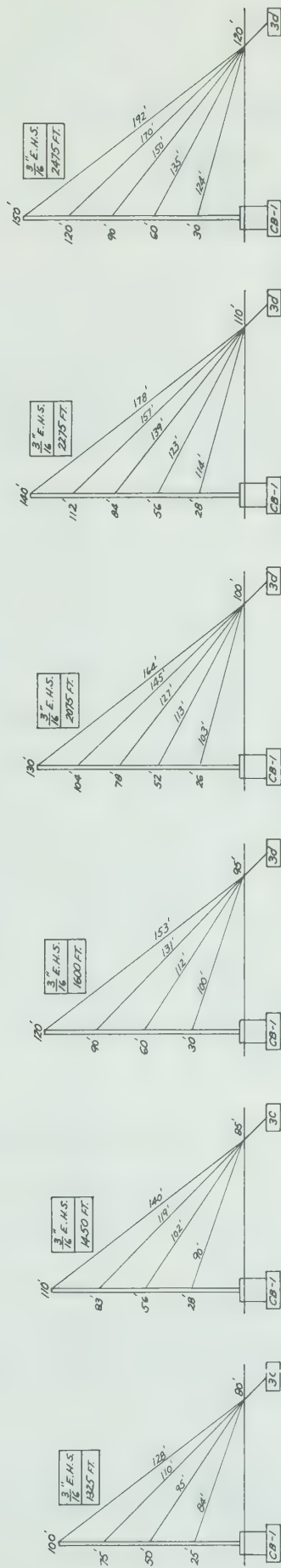
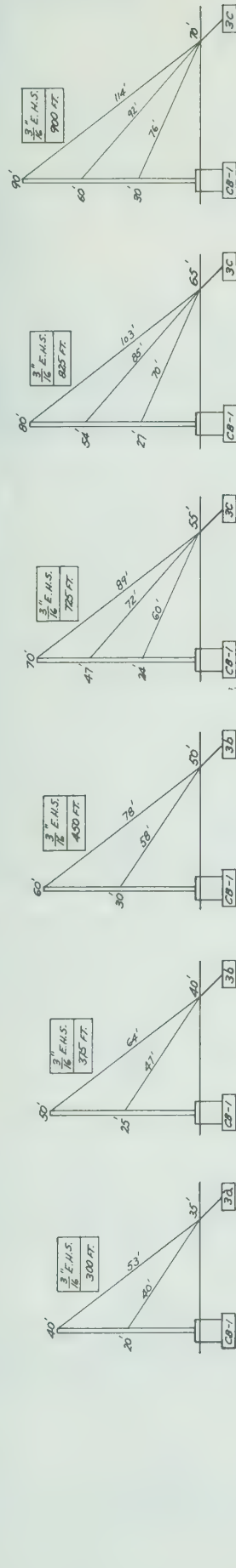
Items shown above are necessary for complete "ground" guyed towers.

For "roof" towers a flat roof mount (FR25G) is substituted for the concrete base plate (BPC25G) and wall anchors (GAWP25) are substituted for the concrete anchors (GAC25).

When ordering specify "roof" or "ground".

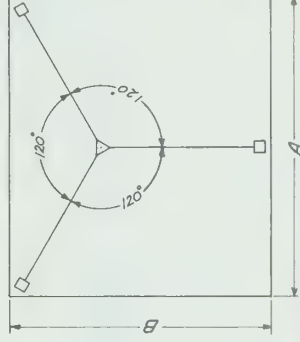
Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.



NOTES:

- 1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
- 2) ALLOWABLE LOAD AT APEX OF TALLEST TOWER IS 240 LBS. LATERAL THRUST. (EQUIVALENT AREA IS 6 SQ. FT.) DESIGN ASSUMES USE OF ONE 3/4" LINE AND ONE 1/2" LINE.
- 3) GUYS SHOULD BE TENSIONED TO APPROXIMATELY 10% OF THEIR ULTIMATE STRENGTH.
- 4) ALL TOWERS ARE DESIGNED ACCORDING TO F.I.A. SPECIFICATIONS.



FOR SPACE REQUIREMENT REFER TO DWG. NO. C 640531

WIND LOAD - E.I.A. ZONE "B"
0-180° = 40 F.S.F.

ROHN MANUFACTURING
PEORIA, ILLINOIS

DATE 6-29-64
SCALE NONE

CHECKED c.k.
APPROVED R.A.K.

DRAWN AED

TITLE
GUYING DETAILS FOR
MODEL 25 TOWER
DRAWING NO.
C 640604 R2

PARTS LIST #25G GUYED TOWER

Zone "B" Wind Load

6 Sq. Ft. of Allowable Load

Tower Height	25G	25AG2	BPC25G with 3/4"x12" PP	APL25G and SA253UA	GA25G	G.W. 3/16" E.H.S.	C.C.M. 3/16"	TH. 1/4"	T.B. 3/8"x6" E&E	GAC 253	GAC 255
40'	3	1	1		2	300'	36	12	6	3	
50'	4	1	1		2	375'	36	12	6	3	
60'	5	1	1		2	500'	36	12	6	3	
70'	6	1	1		3	725'	54	18	9	3	
80'	7	1	1		3	825'	54	18	9	3	
90'	8	1	1		3	900'	54	18	9	3	
100'	9	1	1		4	1325'	72	24	12		3
110'	10	1	1		4	1500'	72	24	12		3
120'	11	1	1		4	1600'	72	24	12		3
130'	12	1	1		5	2125'	90	30	15		3
140'	13	1	1		5	2275'	90	30	15		3
150'	14	1	1		5	2500'	90	30	15		3
160'	16		1	1	6	2600'	108	36	18	6	
170'	17		1	1	6	2775'	108	36	18	6	
180'	18		1	1	6	2875'	108	36	18	6	

Items shown above are necessary for complete "ground" guyed towers.

For "roof" towers a flat roof mount (FR25G) is substituted for the concrete base plate (BPC25G) and wall anchors (GAWP25) are substituted for the concrete anchors (GAC25).

When ordering specify "roof" or "ground".

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

PARTS LIST #25G GUYED TOWER

Zone "C" Wind Load

6 Sq. Ft. of Allowable Load

Tower Height	25G	25AG2	BPC25G with 3/4"x12" PP	GA25G	G.W. 3/16" EHS	G.W. 1/4" EHS	C.C.M. 3/16"	C.C.M. 1/4"	TH. 1/4"	T.B. 3/8"x6" E&E	T.B. 1/2"x12" E&E	GAC 253	GAC 255
40'	3	1	1	2	300'		36		12	6		3	
50'	4	1	1	2		375'		36	12		6	3	
60'	5	1	1	3	625'		54		18	9		3	
70'	6	1	1	3	725'		54		18	9		3	
80'	7	1	1	4	1075'		72		24	12			3
90'	8	1	1	4	1175'		72		24	12			3
100'	9	1	1	4		1325'		72	24		12		3
110'	10	1	1	5	1775'		90		30	15			3
120'	11	1	1	5	2000'		90		30	15			3
130'	12	1	1	6	2125'		108		36	18		6	
140'	13	1	1	6	2250'		108		36	18		6	
150'	14	1	1	6		2425'		108	36		18	6	

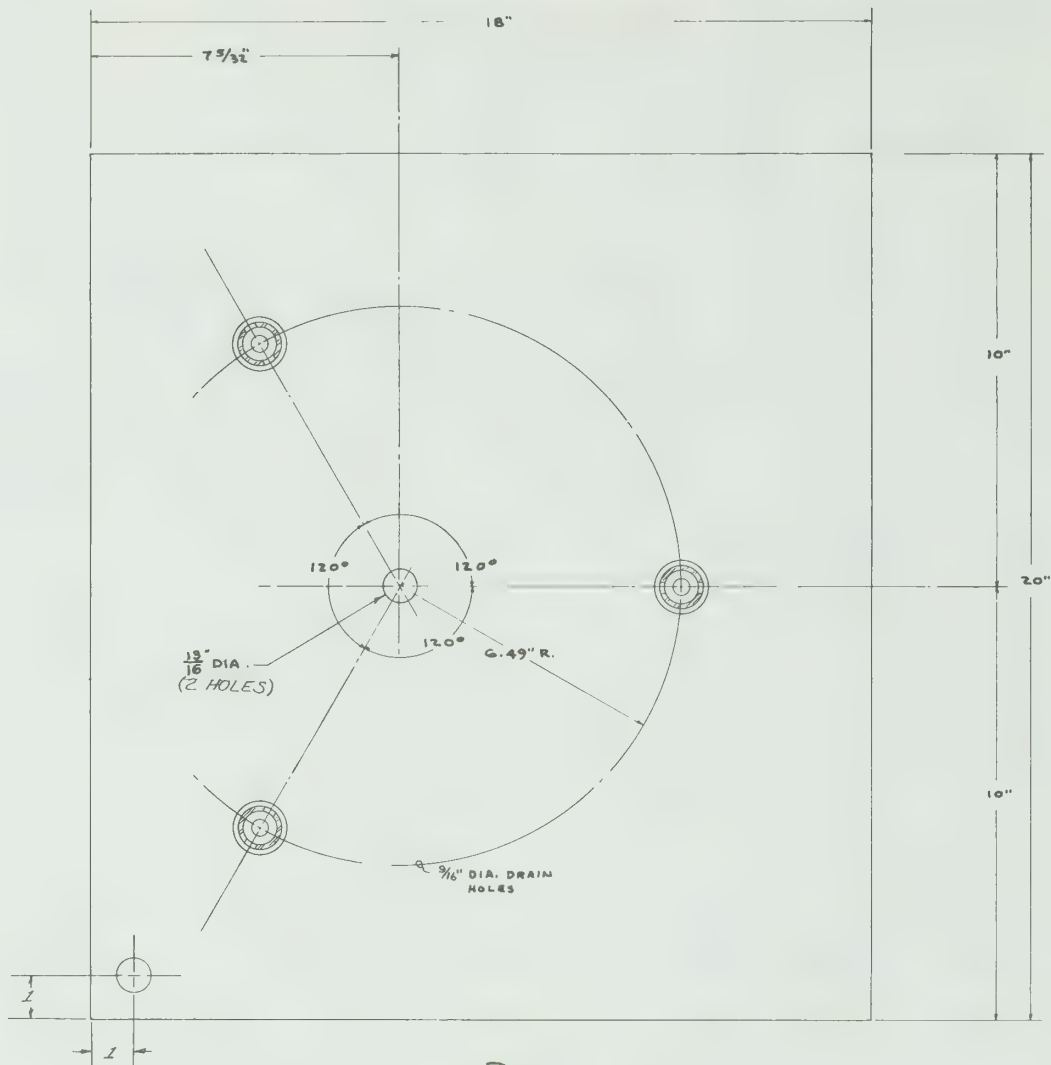
Items shown above are necessary for complete "ground" guyed towers.

For "roof" towers a flat roof mount (FR25G) is substituted for the concrete base plate (BPC25G) and wall anchors (GAWP25) are substituted for the concrete anchors (GAC25).

When ordering specify "roof" or "ground".

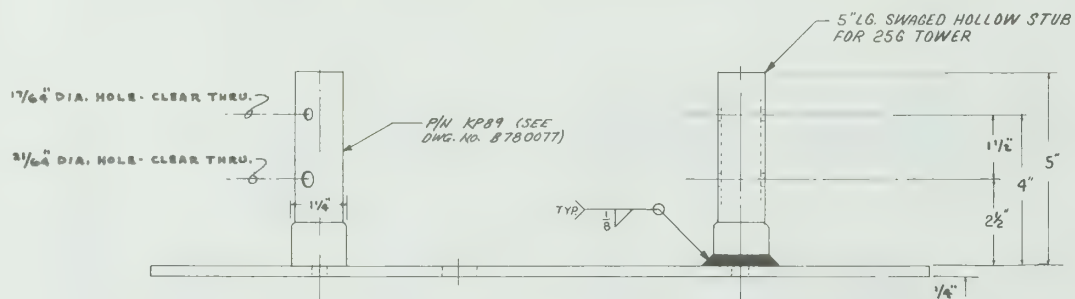
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All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.



PLAN

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.



ELEVATION

BASE PLATE FOR CONCRETE PIER (BPC 25G)

NOTE:

FOR USE WITH GUYED AND BRACKETED TOWERS ONLY.

R6	DELETE EXCESS HOLES	8-31-78	WDR
R5	CHANGED STUB FROM 16 GA. TO 14 GA, ADDED 14	7-26-78	AED
R4	ADDED NOTE	7-6-76	CH
R3	REVISED STUB & ADDED WELD SYMBOL	1-9-75	RDB
R2	ADDED NOTE & REMOVED SCALE	11-26-73	JER

DRAWN ck	CUSTOMER	TITLE
CHECKED RAK		BASE PLATE FOR MODEL 25 TOWER
APPROVED ck		DRAWING NO.
DATE 8-31-61	ROHN MFG. PEORIA, ILLINOIS	C-610831R6
SCALE ~		

R1 REVISED 3-22-73 D.M.
R2 REVISED 6-5-64 QH

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

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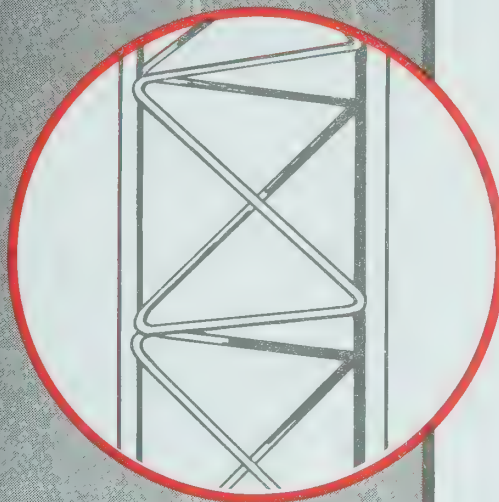
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ROHN® NO. 45G COMMUNICATION

TOWER

*This tower is an 18 inch triangular pattern suitable for heights to 300 feet with proper guying!
A true multi-use tower.*



DESIGN

ROHN No. 45 tower is designed in an 18 inch equilateral triangular pattern. The three legs of the tower are either heavy, 14 gauge, special quality steel tubing or solid steel bars. The cross bracing is the ROHN "zig-zag" design using a continuous, solid steel rod, electric welded to side rails every 15 inches. All sections are 10 feet in length.

USAGE

This tower is suitable for mounting communication antennas or other equipment under normal conditions for heights up to a maximum of 300 feet. See specification sheets for complete guying and wind load information.

CONSTRUCTION

Entire tower is accurately constructed, utilizing precision machines and then electric welded throughout. Workmanship and materials are of the highest quality available and fully conforming to specifications.

FINISH

ROHN No. 45 tower sections are completely hot dip galvanized *after fabrication* to give permanent protection against corrosion. Because sections are galvanized as the last operation, all points of welding and other points of construction are fully covered with molten zinc that tends to seal itself should there ever be any breakage on the surface!

Do not install towers or masts near power lines. All towers or masts should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

UNR-Rohn recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local or national codes.

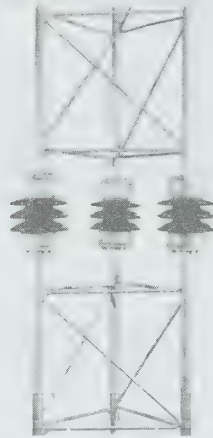
The mixing of so-called interchangeable copies of Rohn towers with Rohn towers is dangerous and voids all engineering or warranty data supplied by UNR-Rohn. Materials used by the so-called copies are not the same quality and have not been tested or engineered by UNR-Rohn to conform to the same quality standards. Mixing of non-Rohn items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

HOT DIP GALVANIZED

ROHN NO. 45G TOWER ACCESSORIES



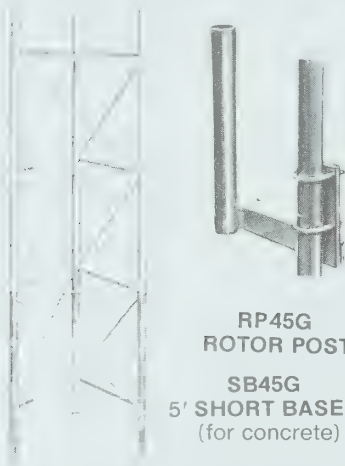
BPL45G WITH TB3 THRUST BEARING
TB4 THRUST BEARING W/ 3" O.D.



45RG*
10' INSULATOR SECTION



APL45G
BEACON PLATE



RP45G
ROTOR POST
SB45G
5' SHORT BASE
(for concrete)



BPC45G*
BASE PLATE
(for concrete)

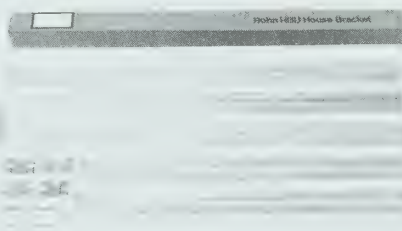
3/4" X 12" PP
PIER PIN



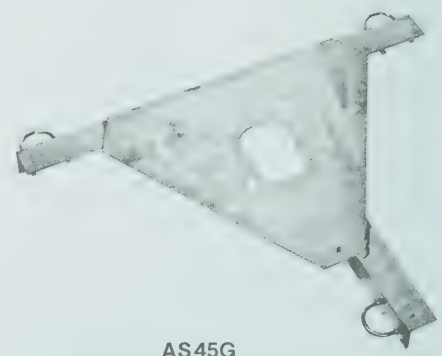
FR45G*
FLAT ROOF MOUNT



AB
AMATEUR BEARING
(for use with 45AG4 Top
Section and BPL45G)



HBU
UNIVERSAL HOUSE BRACKET



AS45G
ACCESSORY SHELF

*NOTE: TOWERS MOUNTED ON THESE BASES MUST BE BRACKETED OR GUYED AT ALL TIMES. TEMPORARY STEEL GUYING MAY ALSO BE NECESSARY DURING INSTALLATION OR DISMANTLING. COPYRIGHT 1986 ROHN. ALL RIGHTS RESERVED. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

● All ROHN No. 45G Tower Accessories are Hot Dip Galvanized after fabrication.

ROHN NO. 45G TOWER ACCESSORIES



GA45G
GUY ASSEMBLY
(bracket w/torque bars)

GB45G
(guy bracket only)

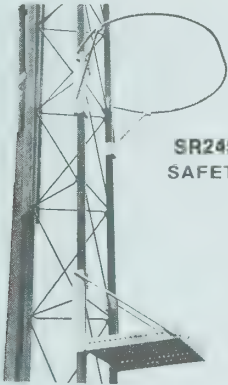


45ACL3
ANTI-CLIMB SECTION



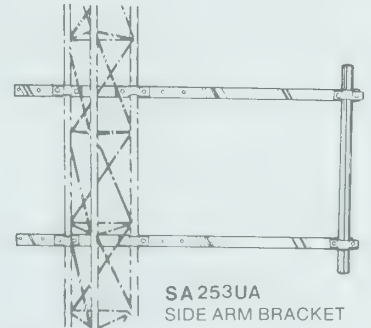
TB50
1-1/4" I.D. X 2" O.D.
TOWER BUSHING
(for use in 45AG Top Section)

TB75 (not shown)
1-1/2" I.D. X 2" O.D.
(for use in 45AG Top Section)

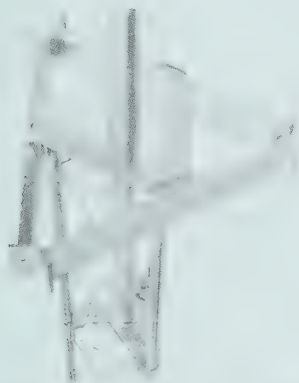


SR245
SAFETY RING

WP45G
WORK PLATFORM
For use on No. 45G tower.



SA253UA
SIDE ARM BRACKET



TA45 TORQUE ARM STABILIZER ASSEMBLY
45TDM2 TOP DISH MT.

DM45G2
FACE DISH MOUNT
(2-3/8" O.D. pipe
5' long)

DM454
(4-1/2" O.D. pipe
5' long
not shown)



EF2545
ALUMINUM
ERECTION
FIXTURE

For Lifting 1-10' Section
At A Time

● All ROHN No. 45G Tower Accessories are Hot Dip Galvanized after fabrication.

ROHN® IN-HOUSE

“Quality Control” Galvanizing **means extra value for you!**

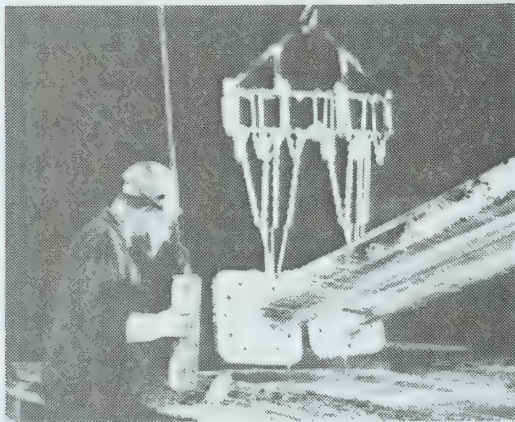
CORROSION RESISTANT: Hot dip zinc galvanizing means that ROHN Products are absolutely corrosion-resistant. A minimum molten zinc coating of *2 ounces for every square foot of surface fuses permanently* to the metal, becoming an actual part of the steel so it cannot be separated. Also the tubular steel used in ROHN Towers is coated both *inside and outside* to give absolute protection against deterioration from condensation and moisture.

CHIP AND SCRATCH PROOF: If a galvanized surface is scratched or chipped, the surrounding

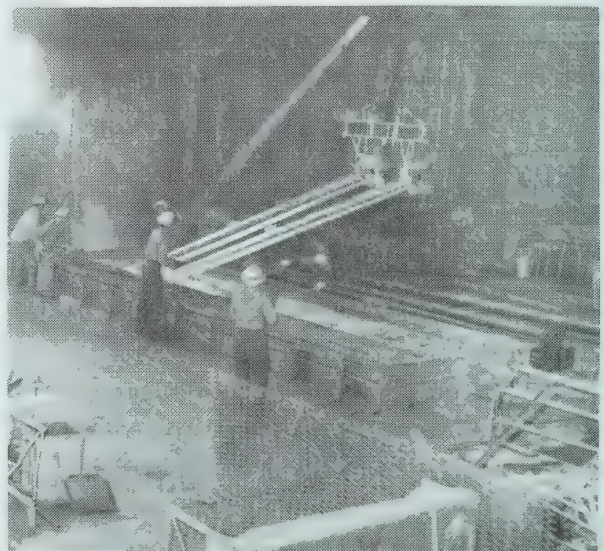
zinc actually “heals the wound” and continues to seal out all corrosive elements! Nothing but hot dip galvanizing does this.

PERMANENT DURABILITY: Galvanizing means permanent protection and attractive appearance that cannot be matched by any other type of coating. With ROHN Products, you receive the *very finest* available—anywhere. All Hot Dip Galvanizing is done in the ROHN Galvanizing Plant according to ROHN Rigid Controls for Highest Quality.

Shown here are the huge pickling vats at ROHN where towers and other ROHN Products are prepared for galvanizing. Modern, high capacity equipment, skilled, experienced operators and finest raw materials keep ROHN quality high.



ROHN tower sections after fabrication are completely immersed in the molten zinc where all welds, points of construction, inner parts, including the interior of the tubing itself — is heavily coated with zinc.



ROHN®

6718 W. Plank Road
P.O. Box 2000
Peoria, IL 61656
TWX: 910-652-0646 FAX: 309-697-5612
PHONE: 309-697-4400

#45 TOWER

PART NUMBER		WT.
45G	10' tower section	70
45AG	9' top section	52
<u>45AG1</u>	Top section. Mast support tube is 1-1/4" galv. pipe, threaded on top and projecting 12" above apex of side rails.	60
45AG2	Top section. Mast support tube is 2-3/8" O.D. tubing, 36" total length, extending 18" above apex of side rails.	60
45AG3	Top section. Mast support tube is 2-1/4" O.D. tubing, extending 12" above apex of side rails. A 2" O.D. antenna stub will fit snugly inside support tube.	60
45AG4	7' top section. Upper end terminates in flat, triangular plate with 3-1/8" dia. hole in center.	52
<u>45AG5</u>	Top section. Mast support tube is 2-3/4" O.D. and 2-9/16" I.D. tubing, 18" total length.	60
45TG	10' tapered base section	90
*45RG	10' insulator section for 45G tower (includes 3 #10470 insulators)	104
45ACL	10' anti-climb section	165
<u>45ACL3</u>	3 anti-climb metal sheets for attaching to tower section	100
5545G	20' adapter section for joining 45G and 55G sections	160
45JBK	Joint bolt kit	3/4
APL45G	Beacon plate	17
SB45G	5' short base section for concrete	35
*BPC45G	Concrete base plate	39
3/4X12PP	Pier pin (for BPC45G or 45TG - one required)	1
*BPH45G	Hinged base plate for concrete	53
1/2X12BB	Concrete base bolt with double nuts (for BPH45G - four required)	1/2
*FR45G	Flat roof mount	34
AS455G	Accessory shelf. Plate for mounting Ham "M" rotor or mast bearing. Mounts inside of tower. When using Model 400 rotor, plate must be redrilled.	8
GA45G	Guy assembly (bracket with torque bars)	20
GB45G	Guy bracket only	16
HBU	Universal house bracket (6" to 30")	15
TB50	Tower bushing for 45AG top (1-1/4" I.D. x 2" O.D.)	1/2
TB75	Tower bushing for 45AG top (1-1/2" I.D. x 2" O.D.)	1/2
AB	Amateur bearing for use with 45AG4 top (2" x 4" x 10" hardware)	1
TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing	2-1/2
TB4	Heavy duty thrust bearing, recommended for 3" O.D. tubing	3
BPL45G	Top plate with guy lugs for mounting AB, TB3 or TB4 bearing	17
SA253UA	Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" support tube	28
SAB45G2	Discontinued (Replaced by SA253UA)	15
SA45G224	Discontinued (Replaced by SA253UA)	22
**TA45	Torque arm stabilizer assembly	56
<u>**45TDM2</u>	Top dish mount w/2" O.D. mast (extends 3' above top plate)	60
<u>**45TDM2SP</u>	Top dish mount w/2" standard pipe (extends 5' above top plate)	80
<u>**45TDM2EH</u>	Top dish mount w/2" EH pipe (extends 5' above top plate)	85
<u>**45TDM25SP</u>	Top dish mount w/2-1/2" standard pipe (extends 5' above top plate)	90
<u>**45TDM25EH</u>	Top dish mount w/2-1/2" EH pipe (extends 5' above top plate)	110
DM45G2	Face dish mount w/2" (2-3/8" O.D.) 5' long standard pipe	52
DM454	Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	88
WP45G	Work platform	14
SR245	Safety ring	8
EF2545	Aluminum erection fixture, 12' long (fits all models with 1-1/4" side rails) (use to raise one 10' section at a time)	18
P2545	Pole only for EF2545	10
H2545	Head only for EF2545	8

*Towers mounted on these bases must be bracketed or guyed.

**This item is not to be used without proper design consideration.

/ Available by special order only. Allow 60 days for delivery. /

NOTE: The price on #45 and #5545G sections will be higher on shipments to the following states: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

Refer to alphabetical/numerical price list for current prices.

REFERENCE SHEET & INSTALLATION INFORMATION

#45 BRACKETED TOWERS, NON-GUYED

INSTALLATION: Select a tower location sufficiently clear and out of falling distance of power lines since every electrical and telephone wire should be considered dangerous. The only safe distance from power lines is at least twice the height of tower, mast and antenna combined. Tower should be installed by experienced and trained personnel. All antenna installations must be grounded per local or national codes.

BASE: The size of the concrete base for a 50' #45 tower, with a house bracket 12' aboveground, is 3' deep by 2' square. For cases of loose soil, etc., the base must be larger. Spread about 2" of gravel in bottom of hole prior to setting base assembly. The base assembly should be attached to the first 10' section prior to setting into gravel. After setting base assembly on gravel, fill another 3" with gravel around legs of base. This allows the tower base legs to extend the required amount below the base of the concrete, thus allowing for drainage of moisture into the gravel. The base assembly and first 10' section should be leveled, plumbed, and temporarily guyed or braced while pouring the concrete. This will insure a plumb tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull base up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

HEIGHT OF TOWER & BRACKET USES: House brackets must be used and must be mounted at least 12' aboveground to be effective. The #45 tower should not extend more than 45' above a house bracket. (Note: Two house brackets are to be used, equally spaced, on the 80', 90', and 100' towers.) To secure the house bracket, use lag screws no smaller than 3/8" x 2". A special effort should be made to locate the house bracket such that the lag screws go through the siding into a stud. Brackets fastened to the siding only will not hold in a high wind. Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.

BOLTS: Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6-1/2" length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joint when the tower is deliberately swayed from side to side.

MISCELLANEOUS: Installation is greatly hastened and simplified by the use of an erection fixture. Do not use it to lift more than the weight of one tower section at a time. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower.

CAUTION ... Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower over. Hinge up no more than 45' of #45 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any type of hinge base or hinge section, the loads applied for hinging the tower must be applied equally on both sides of tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinge bases and roof mounted towers should only be installed by professional and experienced installers.

All information is based upon antennas with not more than 2 square feet of area in a 20 psf (70 mph) wind load and a safety factor, with antenna installed at tower apex.

Dismantling of any tower should be done by professional and experienced installers a section at a time with the use of an erection fixture.

See Chart B-691119 for more information on non-guyed towers.

NOTE: All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance.

PART NUMBER

45G030BRKT	30' Complete Bracketed Tower
45G040BRKT	40' Complete Bracketed Tower
45G050BRKT	50' Complete Bracketed Tower
45G060BRKT	60' Complete Bracketed Tower
45G070BRKT	70' Complete Bracketed Tower
45G080BRKT	80' Complete Bracketed Tower
45G090BRKT	90' Complete Bracketed Tower
45G100BRKT	100' Complete Bracketed Tower

Refer to alphabetical/numerical price list for Reference Sheet Prices on Completed #45G Bracketed Towers.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

UNR-Rohn

Assembly Information

Bracketed #45 Tower, Non-Guyed

SITE SELECTION: Select a tower location sufficiently clear and out of falling distance of power lines since every electrical and telephone wire should be considered dangerous. The only safe distance from power lines is at least twice the height of tower, mast, and antenna combined. Tower should be installed and dismantled by experienced and trained personnel. All antenna installations must be grounded per local or national codes.

BASE: The size of the concrete base for a bracketed #45 tower, with a house bracket 12' aboveground, is 3' deep by 2' square. For cases of loose soil, etc., the base must be larger. Spread about 2" of gravel in bottom of hole prior to setting base assembly. The base assembly should be attached to the first 10' section prior to setting into gravel. After setting base assembly on gravel, fill another 3" with gravel around legs of base. This allows the tower base legs to extend the required amount below the base of the concrete, thus allowing for drainage of moisture into the gravel. The base assembly and first 10' section should be leveled, plumbed, and temporarily guyed or braced while pouring the concrete. This will insure a plumb tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull base up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

HEIGHT OF TOWER & BRACKET USES: House brackets must be used and should be mounted at least 12' aboveground to be effective. The #45 tower should not extend more than 45' (maximum) above a house bracket. (Note: Two house brackets are to be used, equally spaced, on the 80', 90', and 100' towers.) To secure the house bracket, use lag screws no smaller than 3/8" x 2". A special effort should be made to locate the house bracket such that the lag screws go through the siding into a stud. Brackets fastened to the siding only will not hold in a high wind. Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.

BOLTS: Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6-1/2" length. If bolts cannot be pushed through the holes with the heel of a hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

MISCELLANEOUS: Installation is greatly hastened and simplified with the use of an erection fixture. Do not use it to lift more than the weight of one tower section at a time. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower.

CAUTION ... Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower over. Hinge up no more than 45' of #45 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any hinged type base or hinge section, the loads applied for hinging the tower must be applied equally on both sides of the tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases and roof mounted towers should only be installed and dismantled by professional and experienced installers.

All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance.

Dismantling of any tower should be done by professional and experienced installers a section at a time with the use of an erection fixture.

All information is based upon average antennas, with no more than 2 square feet of area in a 20 psf (70 mph) wind load and a safety factor, with antenna installed at tower apex.

THESE ARE FACTORY TESTED INSTRUCTIONS. PLEASE FOLLOW CAREFULLY.

"WARNING: INSTALLING OR DISMANTLING THIS PRODUCT NEAR POWER LINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE SAFETY DIRECTIONS."

INSTALLATION AND DISMANTLING SAFETY INSTRUCTIONS -- YOU, YOUR ANTENNA, AND SAFETY

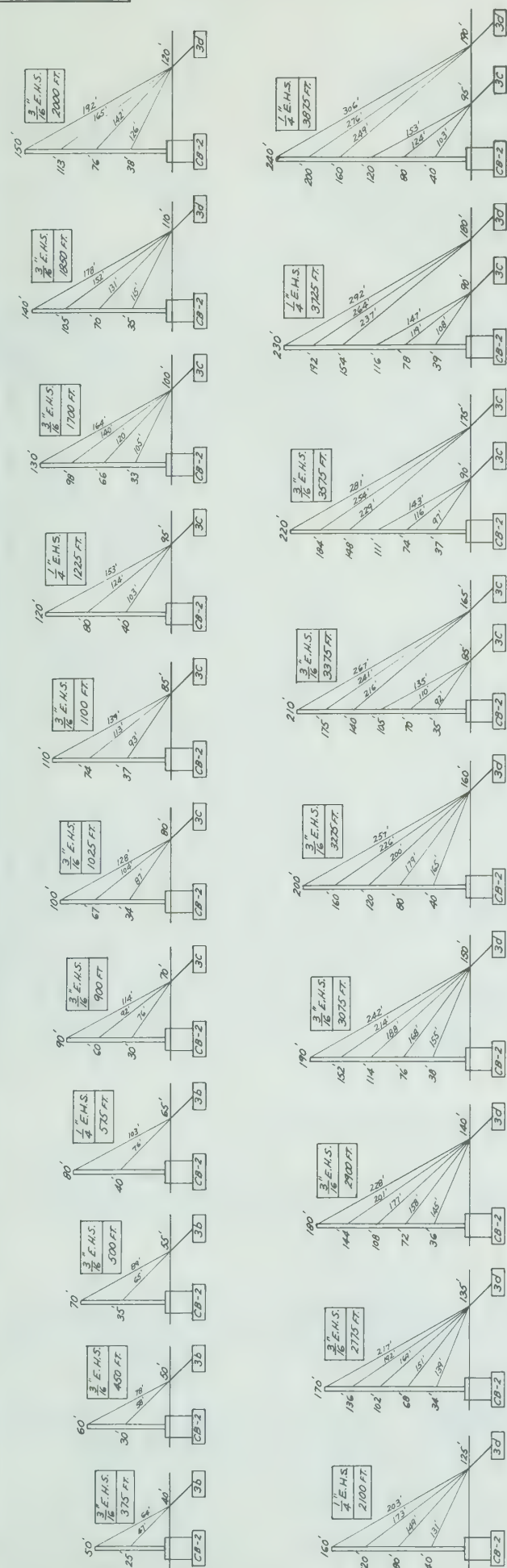
Each year hundreds of people are killed, mutilated, or receive severe permanent injuries when attempting to install or dismantle an antenna. In many of these cases, the victim was aware of the dangers of electrocution but did not take adequate steps to avoid the hazard.

For your safety and to help you achieve a SAFE installation, please READ and FOLLOW the safety precautions below. THEY MAY SAVE YOUR LIFE!

1. If you are installing or dismantling an antenna for the first time, please, for your own safety as well as others, seek PROFESSIONAL ASSISTANCE. Consult your dealer. He can explain which mounting or dismantling method to use for the size and type antenna you are about to install or dismantle.
2. Select your installation site with safety, as well as performance, in mind. (See information on Site Selection.) REMEMBER: POWER LINES AND PHONE LINES LOOK ALIKE. FOR YOUR SAFETY, ASSUME THAT ANY OVERHEAD LINES CAN KILL YOU.
3. Call your power company. Tell them your plans and ask them to look at your site. This is little inconvenience, considering YOUR LIFE IS AT STAKE.
4. Before you begin, plan your installation or dismantling procedure carefully. Successful installation or dismantling of a mast or tower is largely a matter of coordination. Each person should be assigned to a specific task and should know what to do and when to do it. One person should be designated as the "boss" to call out instructions and watch for signs of trouble.
5. When installing or dismantling your antenna, REMEMBER: DO NOT use a metal ladder. DO NOT work on a wet or windy day or if a thunderstorm is approaching. DO dress properly -- shoes with rubber soles and heels, rubber gloves, long sleeve shirt or jacket.
6. If the assembly starts to drop, get away from it and let it fall. REMEMBER: The antenna, mast, cable, and metal guy wires are all excellent conductors of electrical current. Even the slightest touch of any of these parts to a power line completes an electrical path through the antenna and the installer -- THAT'S YOU!
7. If any part of the antenna system should contact a power line -- DON'T TOUCH IT OR TRY TO REMOVE IT YOURSELF. CALL YOUR LOCAL POWER COMPANY. They will remove it safely.
8. If an electrical accident should occur -- DON'T grab hold of the person in contact with the power line or you too will be electrocuted. Use a DRY board, stick or rope to push or pull the victim away from the antenna. If the victim has stopped breathing, administer artificial respiration -- and stay with it. Have someone call for medical help.

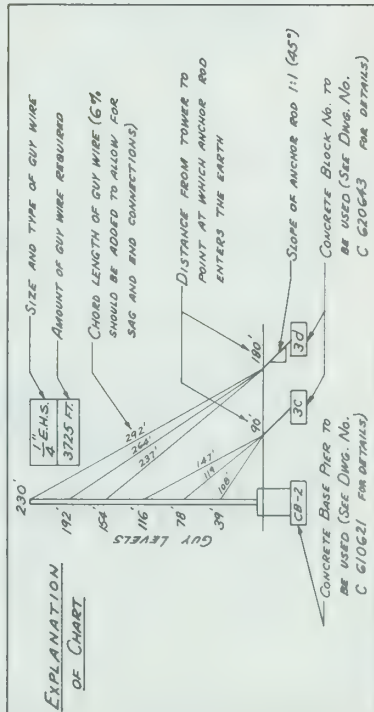
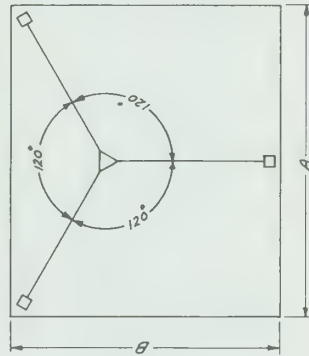
SITE SELECTION: Before attempting to install your antenna, think where you can best place your antenna for safety and performance. To determine a safe distance from wires, power lines, and trees: 1) Measure the height of your antenna; 2) Add this length to the length of your tower or mast; and then, 3) Double this total for the minimum recommended safe distance.

If you are unable to maintain this safe distance, STOP! GET PROFESSIONAL HELP. Generally, the higher the antenna is aboveground, the better it performs. Good practice is to install your antenna above the roof line and away from power lines and obstructions. Remember that the FCC limits your CB antenna height. If possible, find a mounting place close to your set, where the antenna wire can take a short, vertical drop on the outside of the house for entry through a wall or window near the set. Your dealer carries a complete line of installation and grounding hardware.



NOTES:
 1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
 2) ALLOWABLE LOAD AT AREA OF TALLEST TOWER IS 240 LBS. LATERAL THRUST. (EQUIVALENT AREA IS 8 SQ. FT.)
 DESIGN ASSUMES USE OF ONE 1/2" LINE AND ONE 1/4" LINE.
 3) GUYS SHOULD BE TENSIONED TO APPROXIMATELY 10% OF THEIR ULTIMATE STRENGTH.
 4) ALL TOWERS ARE DESIGNED ACCORDING TO E.I.A. SPECIFICATIONS.

FOR SPACE REQUIREMENT REFER TO DWG. No. C 640531



REVISIONS	ADDED EIA DESIGNATION	RE 2-17-76	HR
DRAWN AED	UPDATED DRAWING	R. 111870	\$
CHECKED CLK			
APPROVED RAA			
DATE 6-18-64			
SCALE NONE			

GUYING DETAILS FOR MODEL 45 TOWER
 DRAWING NO. C 640606 R2

ROHN MANUFACTURING PEORIA, ILLINOIS

PARTS LIST #45G GUYED TOWER

Zone "A" Wind Load

8 Sq. Ft. of Allowable Load

Tower Height	45G	45AG2	BPC45G with 3/4"x12" PP	APL45G and SA253UA	GA45G	G.W. 3/16" EHS	G.W. 1/4" EHS	C.C.F. 3/16"	C.C.F. 1/4"	TH. 1/4"	T.B. 3/8"x6" E&E	T.B. 1/2"x12" E&E	GAC 253	GAC 255
50'	4	1	1		2	375'		36		12	6		3	
60'	5	1	1		2	450'		36		12	6		3	
70'	6	1	1		2	500'		36		12	6		3	
80'	7	1	1		2		600'		36	12		6	3	
90'	8	1	1		3	900'		54		18	9		3	
100'	9	1	1		3	1100'		54		18	9		3	
110'	10	1	1		3	1150'		54		18	9		3	
120'	11	1	1		3		1225'		54	18		9	3	
130'	12	1	1		4	1700'		72		24	12			3
140'	13	1	1		4	1850'		72		24	12			3
150'	14	1	1		4	2000'		72		24	12			3
160'	16		1	1	4		2150'		72	24		12		3
170'	17		1	1	5	2775'		90		30	15			3
180'	18		1	1	5	2900'		90		30	15			3
190'	19		1	1	5	3175'		90		30	15			3
200'	20		1	1	5	3275'		90		30	15			3
210'	21		1	1	6	3375'		108		36	18		6	
220'	22		1	1	6	3575'		108		36	18		6	
230'	23		1	1	6		3725'		108	36		18	6	
240'	24		1	1	6		3875'		108	36		18	6	
250'	25		1	1	7	4675'		126		42	21		3	3
260'	26		1	1	7	4850'		126		42	21		3	3
270'	27		1	1	7		5150'		126	42		21	3	3
280'	28		1	1	7		5250'		126	42		21	3	3
290'	29		1	1	8	6150'		144		48	24			6
300'	30		1	1	8	6375'		144		48	24			6

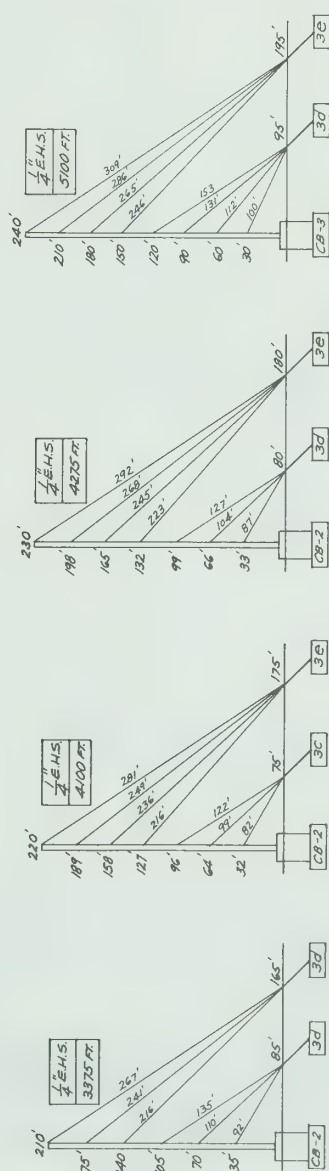
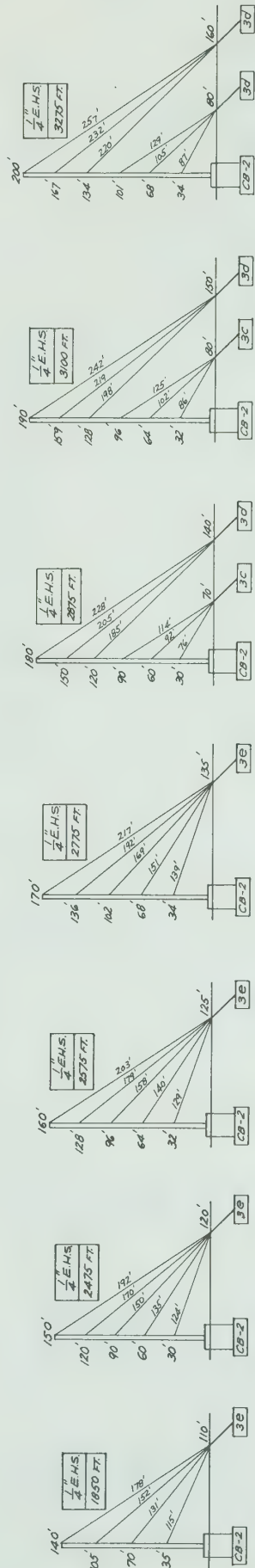
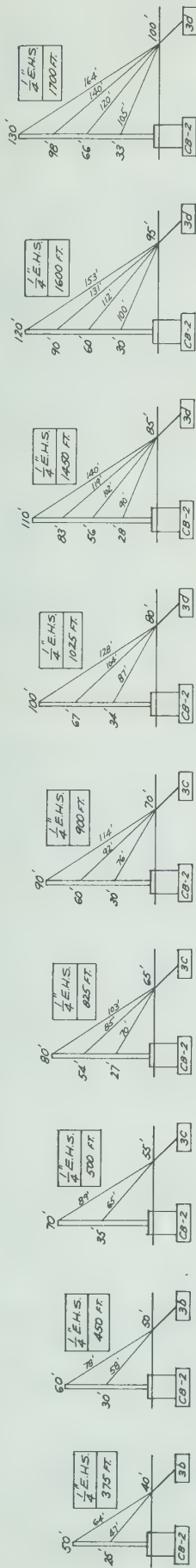
Items shown above are necessary for complete "ground" guyed towers.

For "roof" towers a flat roof mount (FR45G) is substituted for the concrete base plate (BPC45G) and wall anchors (GAWP25) are substituted for the concrete anchors (GAC25).

When ordering specify "roof" or "ground".

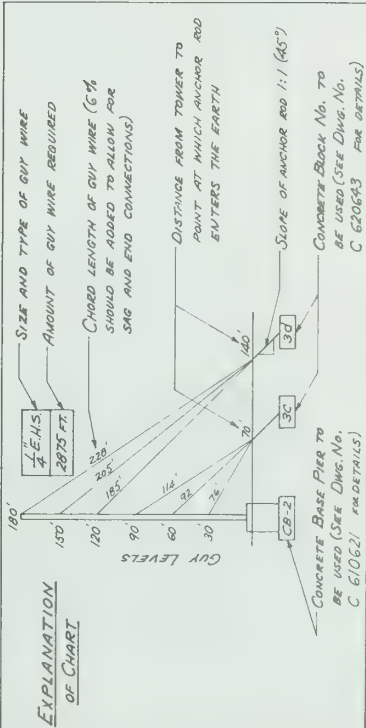
Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.



NOTES:
1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
2) ALLOWABLE LOAD AT APEX OF TALLEST TOWER IS 320 LBS. LATERAL THRUST. (EQUIVALENT AREA IS 8 SQ. FT. DESIGN ASSUMES USE OF ONE 3/8\"/>

FOR SPACE REQUIREMENT
REFER TO DWG. NO. C 640531



EXPLANATION
OF CHART

REVISIONS	0-240' MAX. 0-300' ADDED EIA DESIGNATION	REVISIONS	0-240' MAX. 0-300' ADDED EIA DESIGNATION
DRAWN AED	UPDATED DRAWING	R3	1-13-56 JMD
CHECKED C.K.		R2	2-17-74 MP
APPROVED R.A.L.		R1	11-15-70 E.S.
DATE 6-20-64		TITLE	
SCALE NONE		GUYING DETAILS FOR MODEL 45 TOWER	
		ROHN MANUFACTURING PEORIA, ILLINOIS	
		DRAWING NO.	C 640607R

PARTS LIST #45G GUYED TOWER

Zone "B" Wind Load

8 Sq. Ft. of Allowable Load

Tower Height	45G	45AG2	BPC45G with 3/4"x12" PP	APL45G and SA253UA	GA45G	G.W. 1/4" E.H.S.	C.C.F. 1/4"	TH. 1/4"	T.B. 1/2"x12" E&E	GAC 253	GAC 255
50'	4	1	1		2	375'	36	12	6	3	
60'	5	1	1		2	500'	36	12	6	3	
70'	6	1	1		2	500'	36	12	6	3	
80'	7	1	1		3	825'	54	18	9	3	
90'	8	1	1		3	900'	54	18	9	3	
100'	9	1	1		3	1100'	54	18	9	3	
110'	10	1	1		4	1500'	72	24	12		3
120'	11	1	1		4	1600'	72	24	12		3
130'	12	1	1		4	1700'	72	24	12		3
140'	13	1	1		4	1850'	72	24	12		3
150'	14	1	1		5	2500'	90	30	15		3
160'	16		1	1	5	2650'	90	30	15		3
170'	17		1	1	5	2775'	90	30	15		3
180'	18		1	1	6	2875'	108	36	18	6	
190'	19		1	1	6	3100'	108	36	18	6	
200'	20		1	1	6	3275'	108	36	18	6	
210'	21		1	1	6	3375'	108	36	18	6	
220'	22		1	1	7	4100'	126	42	21	3	3
230'	23		1	1	7	4275'	126	42	21	3	3
240'	24		1	1	8	5150'	144	48	24		6

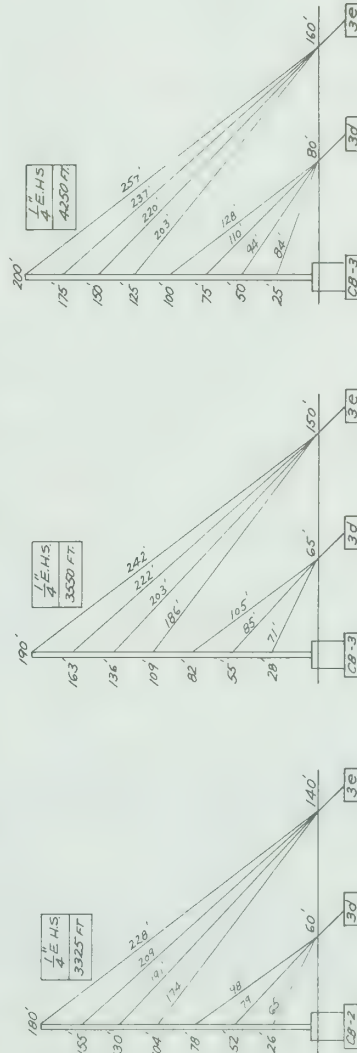
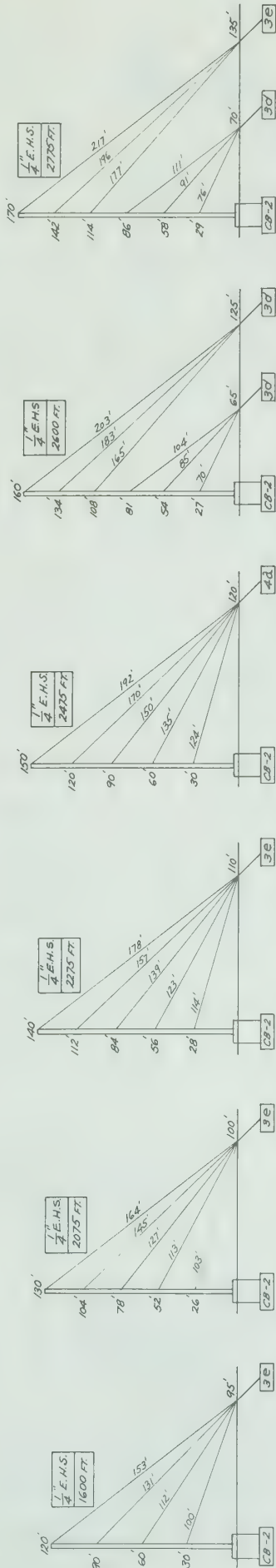
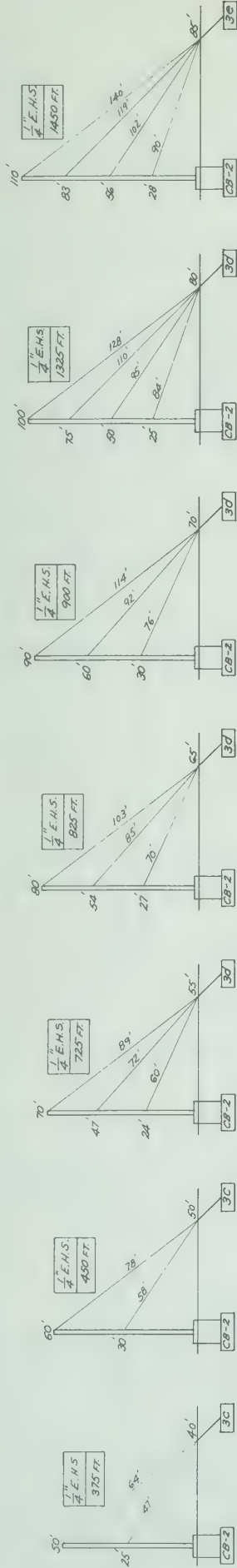
Items shown above are necessary for complete "ground" guyed towers.

For "roof" towers a flat roof mount (FR45G) is substituted for the concrete base plate (BPC45G) and wall anchors (GAWP25) are substituted for the concrete anchors (GAC25).

When ordering specify "roof" or "ground".

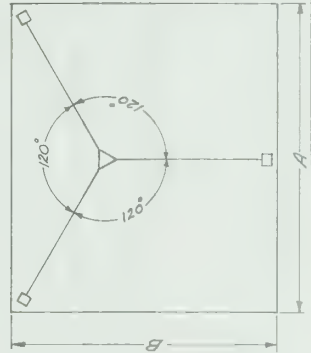
Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

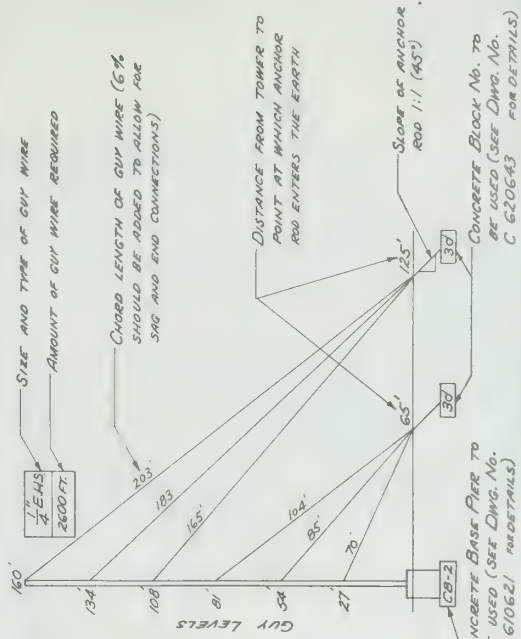


NOTE 5:

- 1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
- 2) ALLOWABLE LOAD AT APEX OF TALLEST TOWER IS 400 LBS. LATERAL THRUST. (EQUIVALENT AREA IS 8 SQ. FT.) DESIGN ASSUMES USE OF ONE 1" LINE AND ONE 1/2" LINE.
- 3) GUYS SHOULD BE TENSIONED TO APPROXIMATELY 10% OF THEIR ULTIMATE STRENGTH.
- 4) ALL TOWERS ARE DESIGNED ACCORDING TO E.I.A. SPECIFICATIONS.



EXPLANATION OF CHART



REVISIONS	DATE	SCALE	MANUFACTURING	DRAWING NO.	TITLE
1	6-30-64	1/32"	ROHN MANUFACTURING	C 640608	MODEL 45 TOWER
2	1-17-76	1/4"	ROHN MANUFACTURING	C 640608	MODEL 45 TOWER
3	1-17-76	1/4"	ROHN MANUFACTURING	C 640608	MODEL 45 TOWER

FOR SPACE REQUIREMENT REFER TO DWG. NO. C 640531

1/32" 0-200' WAS 0-300'

PARTS LIST #45G GUYED TOWER

Zone "C" Wind Load

8 Sq. Ft. of Allowable Load

Tower Height	45G	45AG2	BPC45G with 3/4"x12" PP	APL45G and SA253UA	GA45G	G.W. 1/4" E.H.S.	C.C.F. 1/4"	TH. 1/4"	T.B. 1/2"x12" E&E	GAC 253	GAC 255
50'	4	1	1		2	375'	36	12	6	3	
60'	5	1	1		2	500'	36	12	6	3	
70'	6	1	1		3	725'	54	18	9	3	
80'	7	1	1		3	825'	54	18	9	3	
90'	8	1	1		3	900'	54	18	9	3	
100'	9	1	1		4	1325'	72	24	12		3
110'	10	1	1		4	1500'	72	24	12		3
120'	11	1	1		4	1600'	72	24	12		3
130'	12	1	1		5	2150'	90	30	15		3
140'	13	1	1		5	2275'	90	30	15		3
150'	14	1	1		5	2500'	90	30	* -- NOTE -- *		
160'	16		1	1	6	2600'	108	36	18	6	
170'	17		1	1	6	2775'	108	36	18	6	
180'	18		1	1	7	3325'	126	42	21	3	3
190'	19		1	1	7	3600'	126	42	21	3	3
200'	20		1	1	8	4250'	144	48	24		6

* NOTE: For 150' ground tower, use 3 GAC3455 anchors and 15 1/2"x12" galvanized turn-buckles (E&J) rather than those shown in the chart above.

Items shown above are necessary for complete "ground" guyed towers.

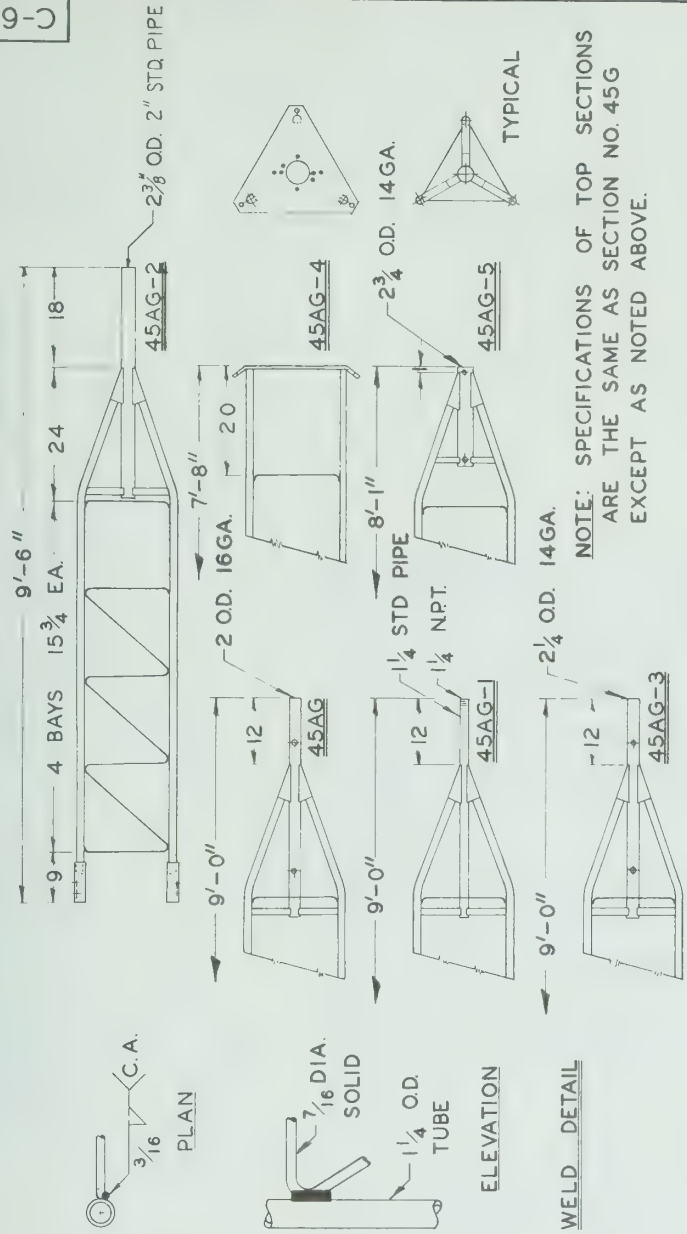
For "roof" towers a flat roof mount (FR45G) is substituted for the concrete base plate (BPC45G) and wall anchors (GAWP25) are substituted for the concrete anchors (GAC25).

When ordering specify "roof" or "ground".

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

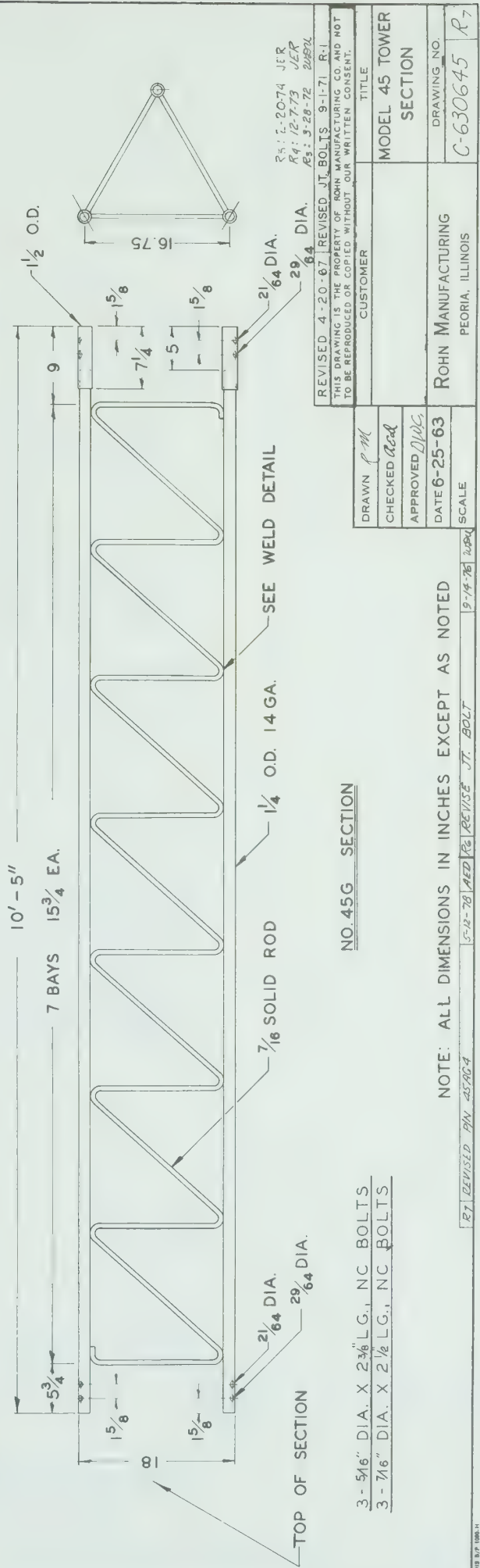
All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

DISTANCE BETWEEN SIDE RAILS (CENTER TO CENTER)	16 3/4"
OVERALL LENGTH OF SECTION	10'-5"
WEIGHT PER SECTION	70 LBS.
SIDE RAIL DIAMETER AND GAUGE	1 1/4" O.D. 14GA.
CROSS SECTIONAL AREA - ONE LEG	.3043 SQ. IN.
GROSS ALLOWABLE VERTICAL LOAD ON THE BOTTOM TOWER SECTION	23,850 LBS.
MAXIMUM ALLOWABLE AXIAL COMPRESSION OF THE CROSS SECTION OF ONE SIDE RAIL	7,950 LBS.
MEASURED TENSILE STRENGTH OF ONE SIDE RAIL	19,800 LBS.
MEASURED TENSILE STRENGTH OF ONE BOLTED LEG JOINT	16,200 LBS.
MAXIMUM ALLOWABLE TENSION IN EACH BOLTED LEG JOINT	6,480 LBS.
SAFE MOMENT OF RESTRAINT	9,610 FT. LBS.
L - UNBRACED LENGTH OF SIDE RAIL (DISTANCE BETWEEN CROSSPIECES)	15 3/4"
R - RADIUS OF GYRATION OF SIDE RAIL	4 1/4"
L/R FOR MAIN LEG MEMBER	38.0
WIND LOAD PER LINEAL FOOT OF TOWER AT THE HORIZONTAL WIND PRESSURES (PER SQUARE FOOT OF FLAT SURFACE)	
LISTED BELOW:	
	30 LBS.
	40 LBS.
	50 LBS.
	8.78
	11.70
	14.63



NOTE: SPECIFICATIONS OF TOP SECTIONS
ARE THE SAME AS SECTION NO. 45G
EXCEPT AS NOTED ABOVE.

STANDARD TOP SECTIONS



R4: 12-7-73	JER
R5: 3-28-72	JER
R6: 12-20-74	WEN

REVISED 4-20-67 REVISED JT. BOLTS 9-1-71 R-1
THIS DRAWING IS THE PROPERTY OF ROHN MANUFACTURING CO. AND NOT
TO BE REPRODUCED OR COPIED WITHOUT OUR WRITTEN CONSENT.

NO. 45G SECTION

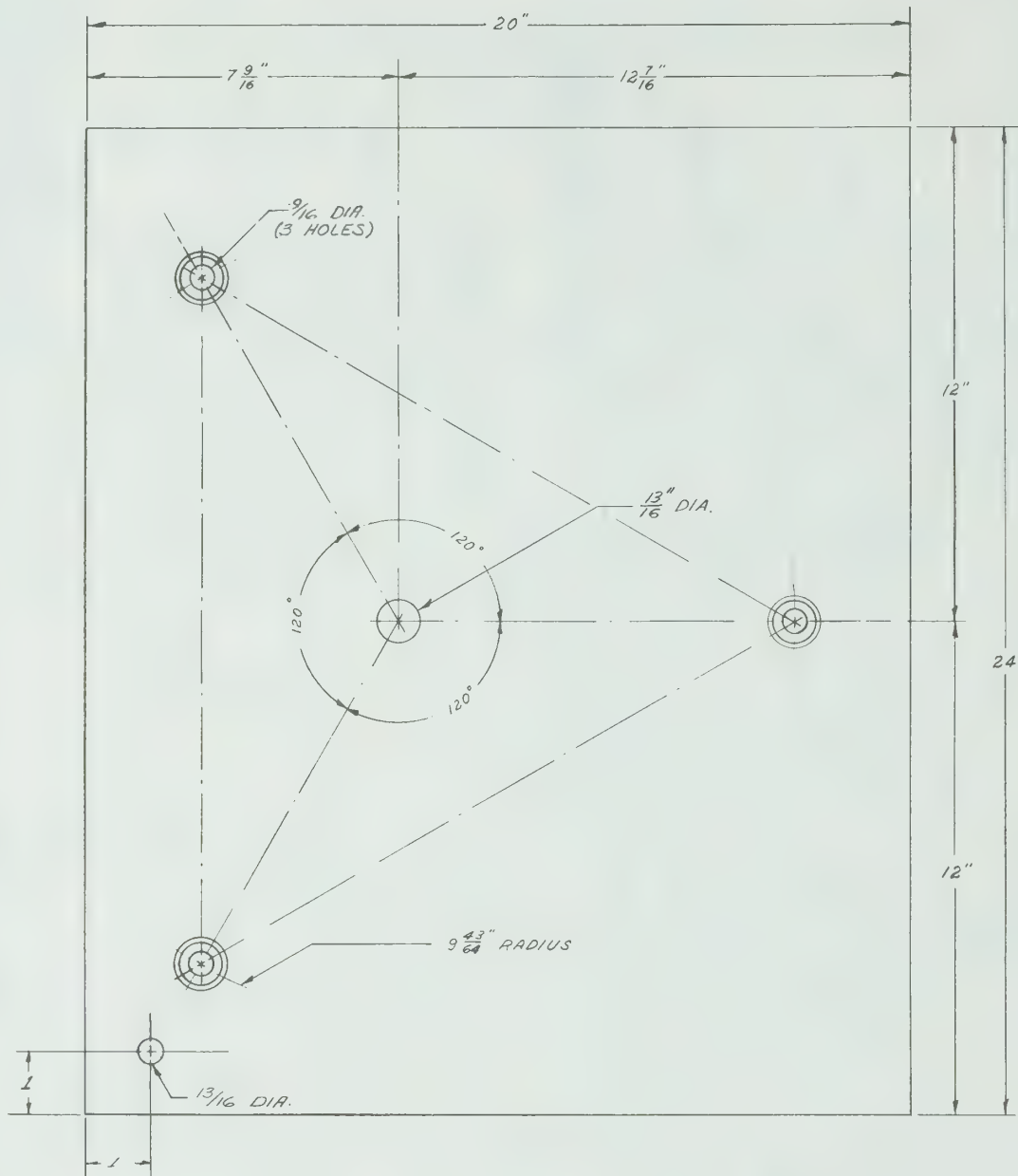
DRAWN <i>P.M.</i>	CHECKED <i>Red</i>	APPROVED <i>DWG</i>
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ROHN MANUFACTURING PEORIA, ILLINOIS	DRAWING NO.	C-630645	R

NOTE: ALL DIMENSIONS IN INCHES EXCEPT AS NOTED

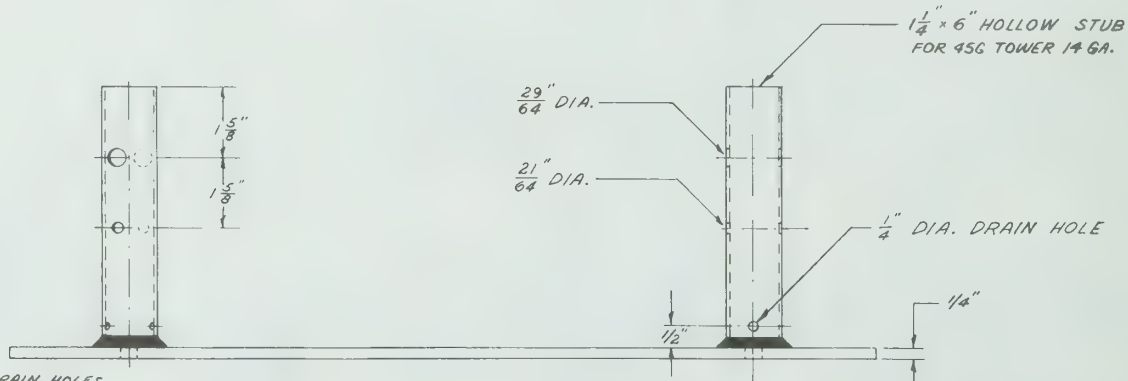
3 - 5/16" DIA. X 2 3/8" LG., NC BOLTS
3 - 7/16" DIA. X 2 1/2" LG., NC BOLTS

C-640645-R3



TITLE		CUSTOMER		DRAWN M. BUENIA	
BASE PLATE FOR MODEL 45 TOWER		ROHN MANUFACTURING PEORIA, ILLINOIS		CHECKED <i>cm</i>	8-30-77 WJD
				APPROVED <i>RA</i>	7-18-77 WJD
DRAWING NO. C-640645R5		ROHN MANUFACTURING PEORIA, ILLINOIS		DATE 6-30-64	7-6-76 <i>RA</i>
				SCALE	1-9-75 <i>RDB</i>
					2-14-74 <i>JER</i>

NOTE:
AFTER GALVANIZING CHECK DRAIN HOLES
TO SEE THAT THEY ARE NOT PLUGGED.



BASE PLATE FOR CONCRETE PIER
(PART NO. BPC-45)

NOTE:[®]
FOR USE WITH GUYED AND BRACKETED TOWERS ONLY.

R3 NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

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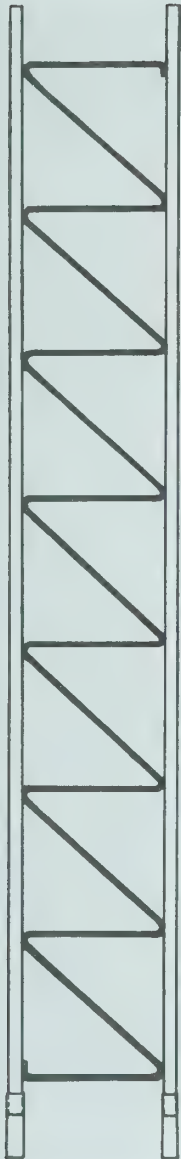
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ROHN No. 55

COMMUNICATION TOWER



GENERAL USE

This tower lends itself to a wide variety of uses commonly encountered in the communications field. Adaptability to varying heights and loading requirements are two of the strong points for this model.

DESIGN

This tower was engineered to provide excellent strength in heights up to 400 ft. in a 30 lb. per sq. ft. windload. When properly installed and guyed, the standard tower will support 24 sq. ft. in the top 50' (maximum of 4 antennas). Because of this rugged design the No. 55 tower satisfies a broad range of communication uses, particularly where unusual windloading and height requirements exist.

CONSTRUCTION

Constructed on a 18-1/2" equilateral triangle pattern, utilizing 1-1/2" high-strength tubing for the side rails. The "zig-zag" cross bracing is formed from a continuous 7/16" solid steel rod electrically welded every 15-3/4" on the side rails. Each 10' section is sleeve joined to the other and double bolted to provide superior strength.

FINISH

The tower sections as well as all accessories are completely Hot Dip Galvanized, both inside and out, *after fabrication* to protect all points of welding and construction against corrosion and to provide an attractive and maintenance free installation.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

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ROHN®

6718 West Plank Road
P.O. Box 2000 • Peoria, Illinois 61656
Phone: 309-697-4400
TWX 910-652-0646
U.S.A.

#55 TOWER

<u>PART NUMBER</u>		<u>WT.</u>
55G	10' tower section	100
55TG	10' tapered base section (sits on a pier pin - order pier pin separately)	138
55ACL	10' welded anti-climb section	185
455ACL3	3 anti-climb metal sheets for attaching to tower section	120
5545G	20' adapter section for joining 45G and 55G sections	160
55JBK	Joint bolt kit	1
APL55G	Beacon plate	18
SB55G	5' short base section for concrete	45
BPC55G (*)	Concrete base plate (sits on a pier pin - order pier pin separately)	40
3/4X12PP	Pier pin (for BPC55G or 55TG - one required)	1
GA55G	Guy assembly (bracket with torque bars)	28
GB55G	Guy bracket only	19
BPL55G	Top plate with guy lugs for mounting AB, TB3 or TB4 bearing	18
AB	Amateur bearing for use with appropriate top (2" x 4" x 10" hardware)	1
TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing	2-1/2
TB4	Heavy duty thrust bearing, recommended for 3" O.D. tubing	3
SA253UA	Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube	28
*TA55	Torque arm stabilizer assembly	60
<u>/55TDM2/</u>	Top dish mount w/2" O.D. mast (extends 3' above top plate)	60
<u>/55TDM2SP/</u>	Top dish mount w/2" standard pipe (extends 5' above top plate)	80
<u>/55TDM2EH/</u>	Top dish mount w/2" EH pipe (extends 5' above top plate)	90
<u>/55TDM25SP/</u>	Top dish mount w/2-1/2" standard pipe (extends 5' above top plate)	95
<u>/55TDM25EH/</u>	Top dish mount w/2-1/2" EH pipe (extends 5' above top plate)	110
*DM55G2	Side face dish mount w/2" (2-3/8" O.D.) 5' long standard pipe	53
*DM554	Side face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	89
EF5565	16' aluminum erection fixture for #55 or 10' #65 sections	70
EF6520	16' heavy duty aluminum erection fixture for #55 or 20' #65 sections	90
EF6520RH	Erection fixture (same as above) with rotating head	100
AS455G	Accessory shelf	8
SR55	Safety ring	10
WP55G	Work platform	15

Note: Erection fixtures should be used to raise one 10' or 20' section at a time.

/ Available by special order only. Allow 60 days for delivery. /

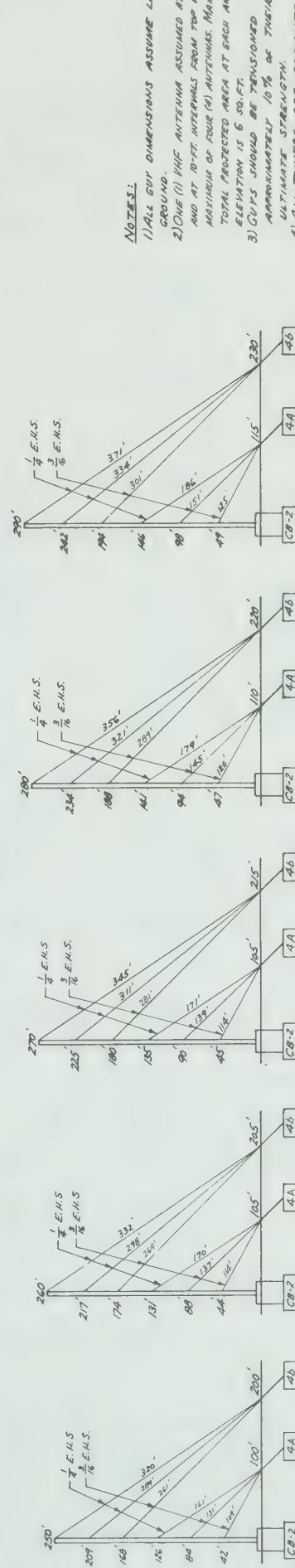
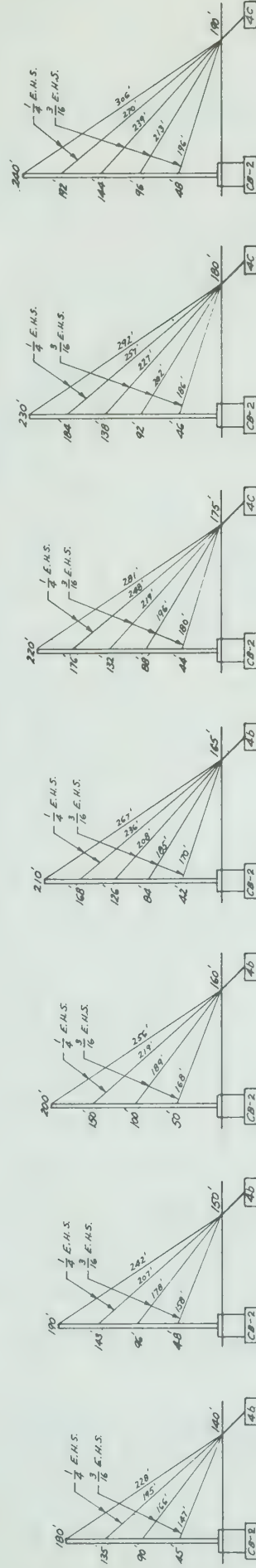
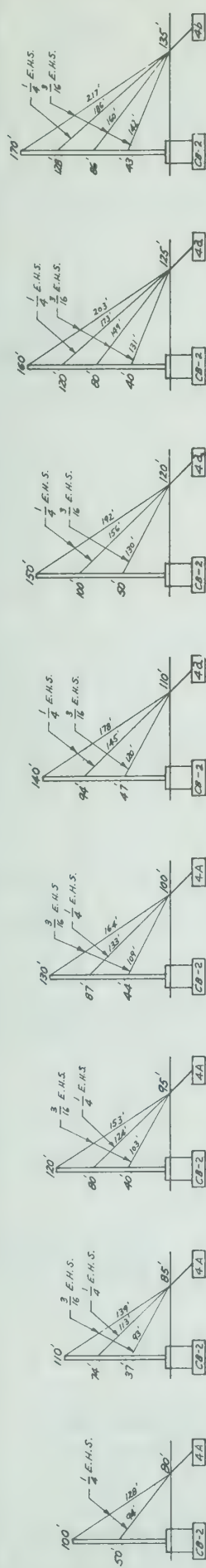
*This item is not to be used without proper design consideration.

(*)Towers mounted on this base must be bracketed or guyed at all times.

The price on #55 sections will be higher on shipments to the following states:
Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington,
and Wyoming.

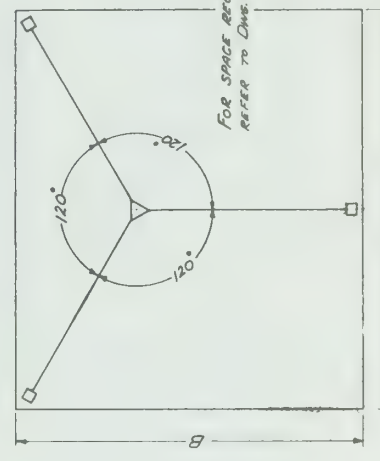
Refer to alphabetical/numerical price list for current prices.

Also, see alphabetical/numerical price list for Reference Sheet Prices on Complete Ground Guyed #55G Towers.

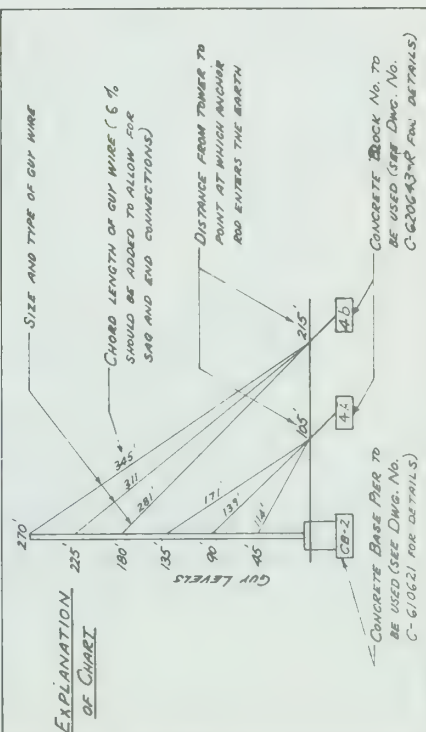


- NOTES:**
- 1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
 - 2) ONE (1) 1/4" E.H.S. ANTENNA ASSUMED AT TOP AND AT 10-FT INTERVALS FROM TOP WITH A MAXIMUM OF FOUR (4) ANTENNAS. MAXIMUM TOTAL PROTECTED AREA AT EACH ANTENNA ELEVATION IS 6 SQ. FT.
 - 3) GUYS SHOULD BE TENSIONED TO APPROXIMATELY 10% OF THEIR ULTIMATE STRENGTH.
 - 4) ALL TOWERS ARE DESIGNED ACCORDING TO E.I.A.
 - 5) DESIGN ASSUMES THAT TRANSMISSION LINES ARE EVENLY DISTRIBUTED OVER THREE TOWER FACES.
 - 6) 3/8" DIA. TRANSMISSION LINES ASSUMED FOR EACH ANTENNA.

FOR TOWER HEIGHTS FROM 300' THROUGH 400' SEE DWG. NO. C-811073



FOR SPACE REQUIREMENT REFER TO DWG. NO. C-640531



TITLE		DATE	SCALE
GUY WIRE DETAILS		7-28-81	NONE
WIND LOAD: E.I.A. ZONE "A"		DATE 7-28-81	
0-300' : 30 PSF		SCALE NONE	
OVER 300' : 35 PSF		DRAWING NO.	
55GAG TOWER		C811072 R1	
ROHN MANUFACTURING CO.		PEORIA, ILLINOIS	

PARTS LIST #55G GUYED TOWER

Zone "A" Wind Load

24 Sq. Ft. of Allowable Antenna Load in the Top 30'

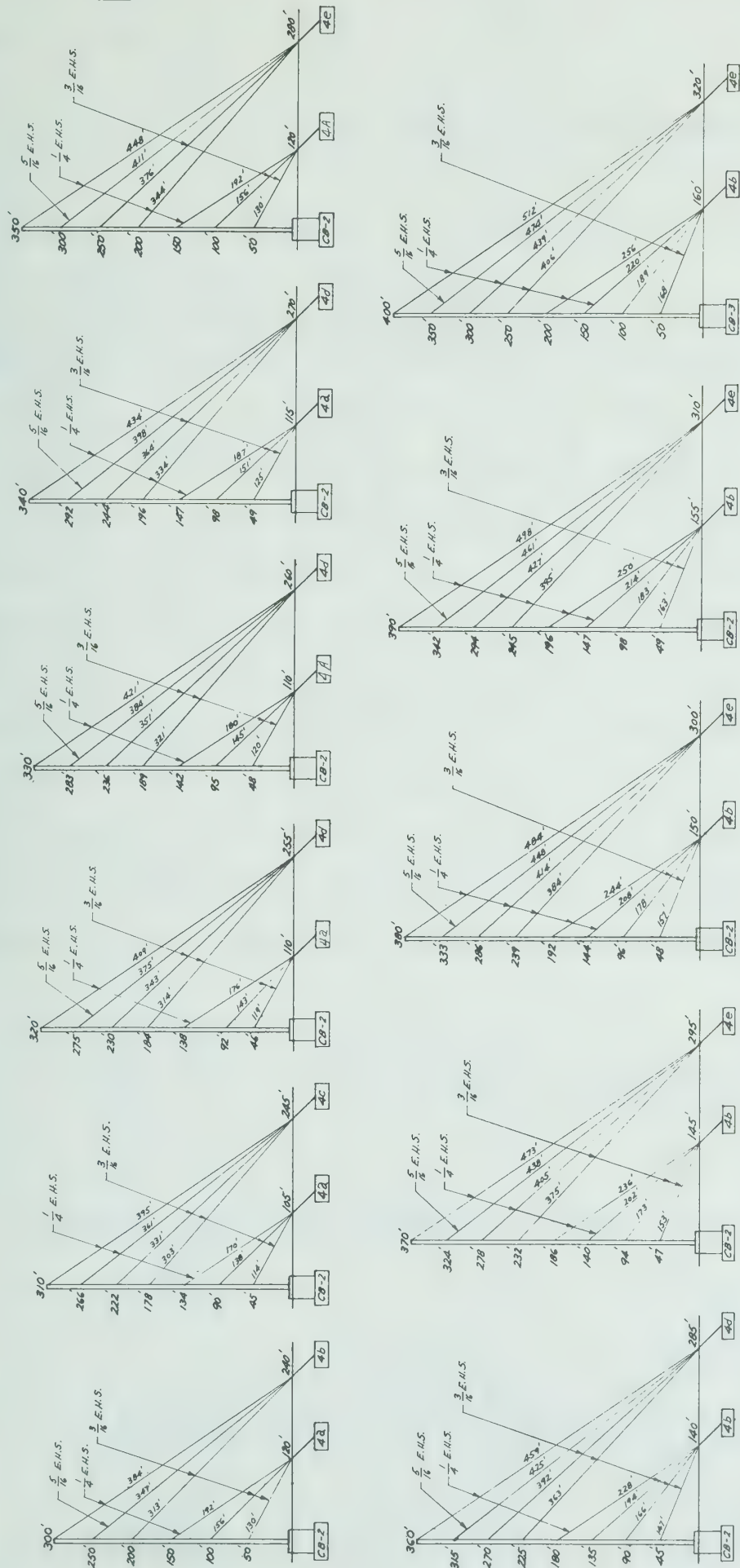
Tower Height	GA55G	G.W. 3/16" E.H.S.	G.W. 1/4" E.H.S.	C.C.F. 3/16"	C.C.F. 1/4"	TH. 3/8"	T.B. 1/2"x12" E&J	GAC 3455
100'	2		750'		43	13	6	3
110'	3	800'	400'	43	19	19	9	3
120'	3	1000'	500'	43	19	19	9	3
130'	3	1000'	500'	43	19	19	9	3
140'	3	500'	1050'	25	37	19	9	3
150'	3	500'	1100'	25	37	19	9	3
160'	4	1650'	500'	61	19	25	12	3
170'	4	1700'	600'	61	19	25	12	3
180'	4	1000'	1350'	43	37	25	12	3
190'	4	1150	1450'	43	37	25	12	3
200'	4	1200'	1500'	43	37	25	12	3
210'	5	2000'	1600'	61	37	31	15	3
220'	5	2000'	1700'	61	37	31	15	3
230'	5	2000'	1750'	61	37	31	15	3
240'	5	2100'	2000'	61	37	31	15	3
250'	6	1650'	2500'	67	55	37	18	6
260'	6	1700'	2600'	67	55	37	18	6
270'	6	1800'	2700'	67	55	37	18	6
280'	6	2000'	2800'	67	55	37	18	6
290'	6	2000'	3000'	67	55	37	18	6

(continued on next page)

Items shown above, plus ACWS, APL55G, SA253UA, BPC55G, 3/4X12PP, and required number of 55G 10' sections, are necessary for a complete "ground" guyed tower.

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.



FOR TOWER HEIGHTS,
FROM 100 THROUGH 290,
SEE DWG. No. C811072

SIZE AND TYPE OF GUY WIRE

EXPLANATION
OF CHART

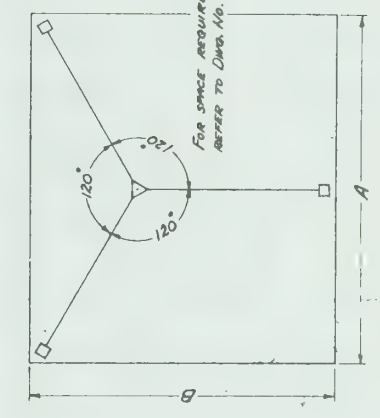
CHORD LENGTH OF GUY WIRE (6%
SAG) SHOULD BE ADDED TO ALLOW FOR
SAG AND END CONNECTIONS

DISTANCE FROM TOWER TO
POINT AT WHICH ANCHOR ROD
ENTERS THE EARTH

CONCRETE BLOCK No. 70
BE USED (SEE DWG. No.
C-620643 FOR DETAILS)

CONCRETE BASE PIER TO
BE USED (SEE DWG. No.
C-610621 FOR DETAILS)

- NOTES:
- 1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
 - 2) ONE (1) WIRE ANTENNA ASSUMED AT TOP AND AT 10-FT INTERVALS FROM TOP WITH A MAXIMUM OF FOUR (4) ANTENNAS MAXIMUM TOTAL PROJECTED AREA AT EACH ANTENNA ELEVATION IS 6 SQ. FT.
 - 3) GUYS SHOULD BE TENSIONED TO APPROXIMATELY 10% OF THEIR ULTIMATE STRENGTH.
 - 4) ALL TOWERS ARE DESIGNED ACCORDING TO E.I.A. SPECIFICATIONS.
 - 5) DESIGN ASSUMES THAT TRANSMISSION LINES ARE EVENLY DISTRIBUTED OVER THREE TOWER FACES, 8" DIA. TRANSMISSION LINES ASSUMED FOR EACH ANTENNA.



FOR SPACE REQUIREMENT
REFER TO DWG. No. C-640031

DRAWN	CHECKED	APPROVED	DATE	SCALE	TITLE
AED	AK	TS	7-28-81	NONE	GUYING DETAILS
					FOR 55G4AG TOWER
					DRAWING NO. C811073
					ROHN MANUFACTURING CO.
					PEORIA, ILLINOIS

PARTS LIST #55G GUYED TOWER

Zone "A" Wind Load

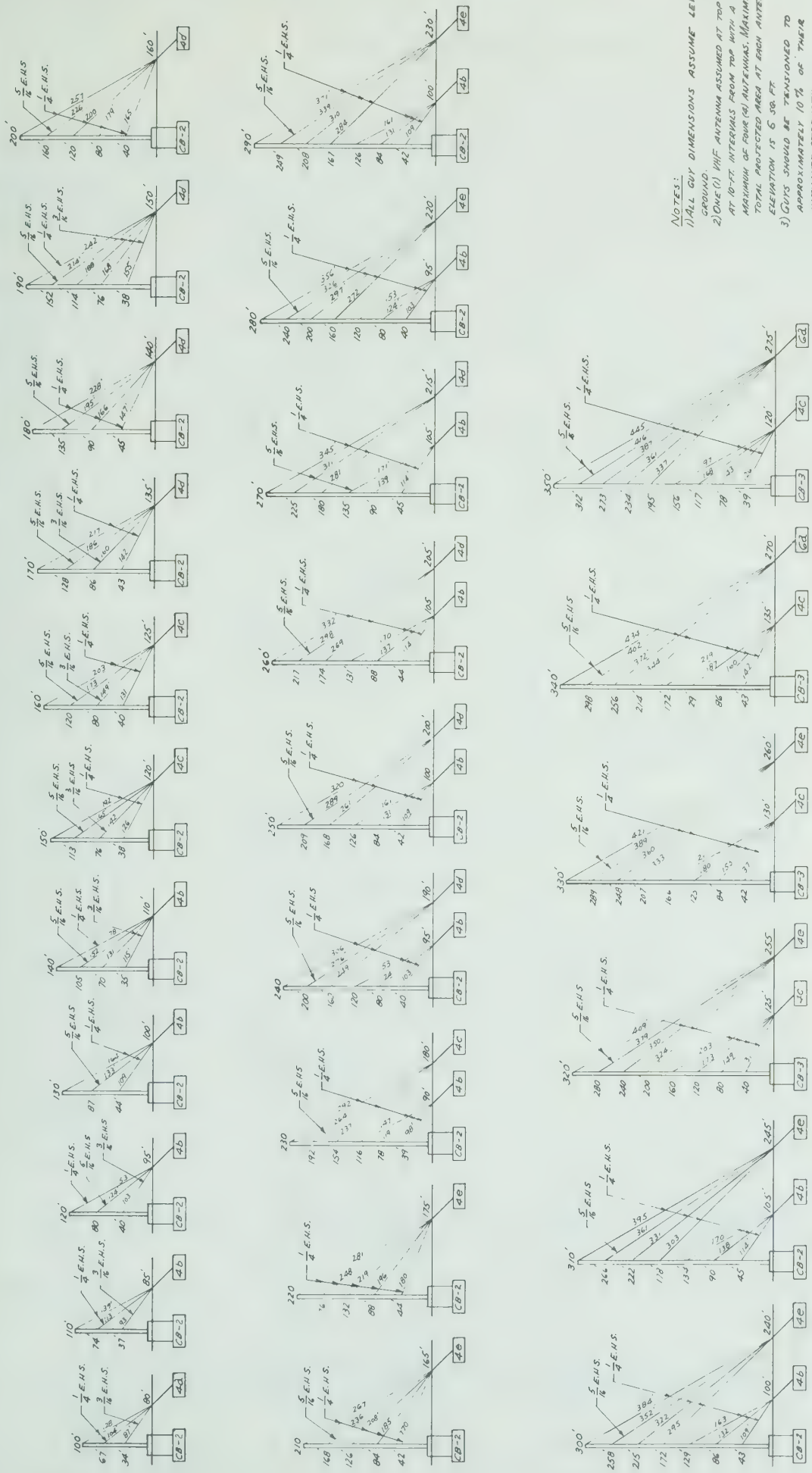
24 Sq. Ft. of Allowable Antenna Load in the Top 30'

Tower Height	GA55G	G.W. 3/16" E.H.S.	G.W. 1/4" E.H.S.	G.W. 5/16" E.H.S.	C.C.F. 3/16"	C.C.F. 1/4"	C.C.F. 5/16"	TH. 3/8"	T.B. 1/2"x12" E&J	T.B. 5/8"x12" E&J	GAC 3455
300'	6	2000'	2000'	1125'	67	37	19	37	15	3	6
310'	7	3000'	3000'		85	55		43	21		6
320'	7	3000'	2000'	1200'	85	37	19	43	18	3	6
330'	7	3000'	2000'	1250'	85	37	19	43	18	3	6
340'	7	2100'	3200'	1300'	67	55	19	43	18	3	6
350'	7	2200'	3250'	1325'	67	55	19	43	18	3	6
360'	8	4200'	2200'	1400'	103	37	19	49	21	3	6
370'	8	2300'	4200'	1400'	67	73	19	49	21	3	6
380'	8	1200'	5500'	1450'	49	91	19	49	21	3	6
390'	8	1200'	5700'	1500'	49	91	19	49	21	3	6
400'	8	1200'	6000'	1500'	49	91	19	49	21	3	6

Items shown above, plus ACWS, APL55G, SA253UA, BPC55G, 3/4X12PP, and required number of 55G 10' sections, are necessary for a complete "ground" guyed tower.

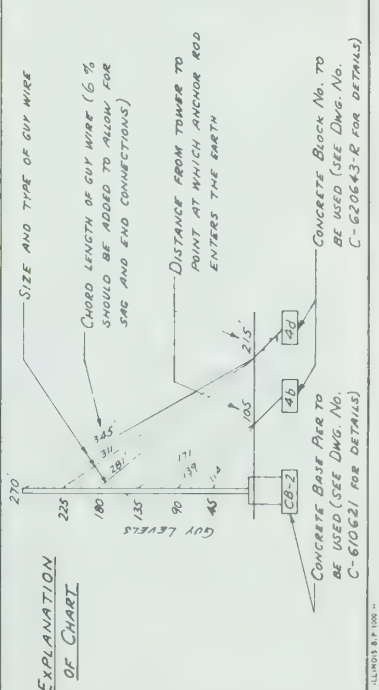
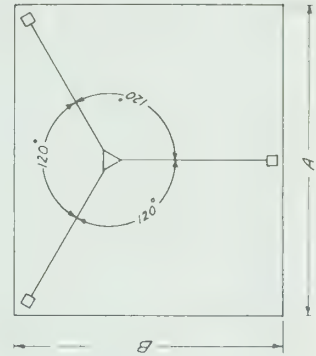
Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.



NOTES:
 1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
 2) ONE (1) VHF ANTENNA ASSUMED AT TOP AND AT 10-FT. INTERVALS FROM TOP WITH A MAXIMUM OF FOUR (4) ANTENNAS. MAXIMUM TOTAL PROJECTED AREA AT EACH ANTENNA ELEVATION IS 6 SQ. FT.
 3) GUYS SHOULD BE TENSIONED TO APPROXIMATELY 10% OF THEIR ULTIMATE STRENGTH.
 4) ALL TOWERS ARE DESIGNED ACCORDING TO E.I.A. SPECIFICATIONS.
 5) DESIGN ASSUMES THAT TRANSMISSION LINES ARE EVENLY DISTRIBUTED OVER THREE TOWER FACES.
 6) $\frac{3}{8}$ " DIA. TRANSMISSION LINES ASSUMED FOR EACH ANTENNA.

FOR SPACE REQUIREMENT
 REFER TO DWG. NO. C-640531



EXPLANATION
 OF CHART

DRAWN AED	CHECKED H.C.	APPROVED J.S.	DATE 7-27-81	SCALE NONE
WIND LOAD: E.I.A. ZONE "B"				
0-300' : 40 PSF				
OVER 300' : 48 PSF				
ROHN MANUFACTURING				
PEORIA, ILLINOIS				
DRAWING NO. C811074				
55G48G TOWER				
GUYING DETAILS				
TITLE				
R1 CBL BASE PIER REMOVED, NEW ACES, CBL 4-25-84, BK 81				

PARTS LIST #55G GUYED TOWER

Zone "B" Wind Load

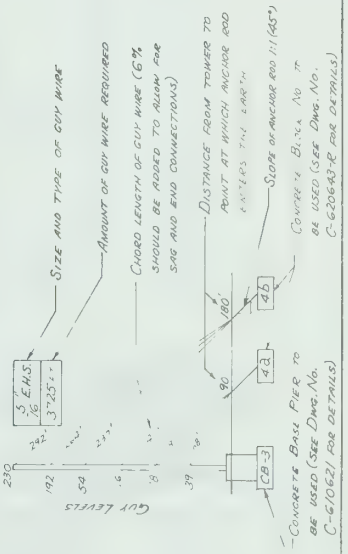
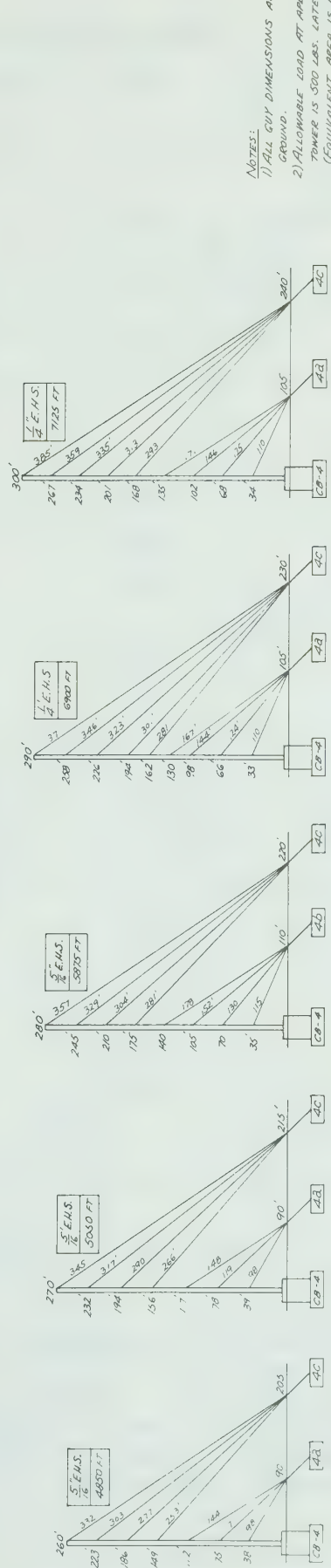
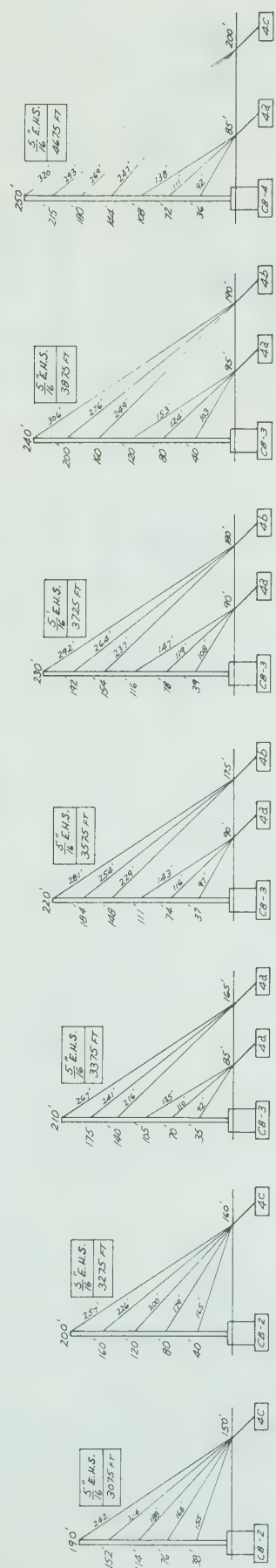
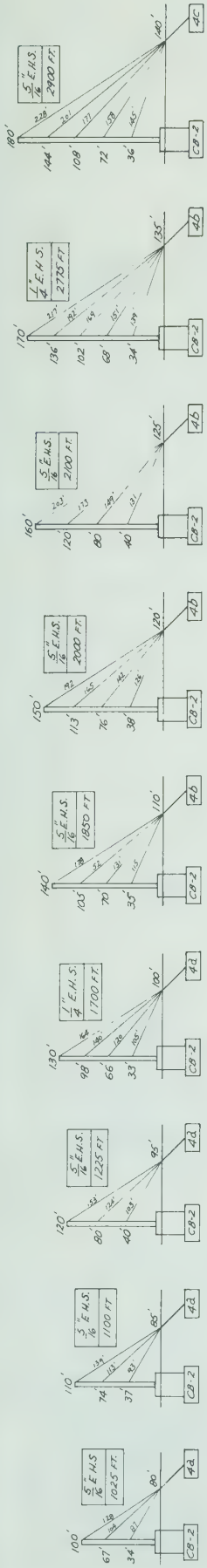
24 Sq. Ft. of Allowable Antenna Load in the Top 30'

Tower Height	GA55G	G.W. 3/16" E.H.S.	G.W. 1/4" E.H.S.	G.W. 5/16" E.H.S.	C.C.F. 3/16"	C.C.F. 1/4"	C.C.F. 5/16"	TH. 3/8"	T.B. 1/2"x12" E&J	T.B. 5/8"x12" E&J	GAC 3455	GAC 5655
100'	3	350'	750'		25	37		19	9		3	
110'	3	350'	800'		25	37		19	9		3	
120'	3	400'	500'	400'	25	19	19	19	6	3	3	
130'	3		1000'	425'		43	19	19	6	3	3	
140'	4	1000'	600'	500'	43	19	19	25	9	3	3	
150'	4	500'	1150'	550'	25	37	19	25	9	3	3	
160'	4	500'	1150'	550'	25	37	19	25	9	3	3	
170'	4	600'	1200'	600'	25	37	19	25	9	3	3	
180'	4		2000'	625'		61	19	25	9	3	3	
190'	5	1700'	800'	700'	61	19	19	31	12	3	3	
200'	5		2600'	725'		79	19	31	12	3	3	
210'	5		2800'	750'		79	19	31	12	3	3	
220'	5		3600'			97		31	15		3	
230'	6		3000'	850'		103	19	37	15	3	6	
240'	6		3000'	900'		103	19	37	15	3	6	
250'	6		3200'	925'		103	19	37	15	3	6	
260'	6		3500'	950'		103	19	37	15	3	6	
270'	6		3000'	1550'		85	37	37	12	6	6	
280'	7		4200'	1050'		121	19	43	18	3	6	
290'	7		4500'	1100'		121	19	43	18	3	6	
300'	7		4650'	1125'		121	19	43	18	3	6	
310'	7		4700'	1150'		121	19	43	18	3	6	
320'	8		4500'	2550'		121	37	49	18	6	6	
330'	8		4500'	2600'		121	37	49	18	6	6	
340'	8		4600'	2700'		121	37	49	12	12	3	3
350'	9		5600'	2750'		139	37	55	12	15	3	3

Items shown above, plus ACWS, APL55G, SA253UA, BPC55G, 3/4X12PP, and required number of 55G 10' sections, are necessary for a complete "ground" guyed tower.

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.



EXPLANATION OF CHART

SIZE AND TYPE OF GUY WIRE
 AMOUNT OF GUY WIRE REQUIRED
 CHORD LENGTH OF GUY WIRE (6% SAG) SHOULD BE ADDED TO ALLOW FOR SAG AND END CONNECTIONS
 CONCRETE BASE PIER TO BE USED (SEE DWG. NO. C-61062) FOR DETAILS
 SLOPE OF ANCHOR ROD 11/145°
 COVER 14 BARS NO. 11
 POINT AT WHICH ANCHOR ROD ENTERS THE EARTH
 DISTANCE FROM TOWER TO POINT AT WHICH ANCHOR ROD ENTERS THE EARTH

- NOTES:
- 1) ALL GUY DIMENSIONS ASSUME LEVEL GROUND.
 - 2) ALLOWABLE LOAD AT ANCHOR OF TALLEST TOWER IS 500 LBS. LATERAL THRUST. (EQUIVALENT AREA IS 10 SQ. FT.) DESIGN ASSUMES USE OF ONE 3" LINE AND ONE 1/2" LINE.
 - 3) CUTS SHOULD BE TENSIONED TO APPROXIMATELY 10% OF THEIR ULTIMATE STRENGTH.
 4. ALL TOWERS ARE DESIGNED ACCORDING TO E.I.A. SPECIFICATIONS.

FOR SPACE REQUIREMENT REFER TO DWG. NO. C-640531

DESIGNATION		DATE	BY
1	ALL GUY WIRE TO E.H.S. GUY WIRE	8-21-71	AS
2	ADDED E.I.A. REVISION		

TITLE	
DRAWN AED	GUYING DETAILS FOR MODEL 55 TOWER
CHECKED C.A.	
APPROVED J.A.	
DATE 6-12-64	ROHN MANUFACTURING PEORIA, ILLINOIS
SCALE NONE	DRAWING NO. C-640611-R2

PARTS LIST #55G GUYED TOWER

Zone "C" Wind Load

10 Sq. Ft. of Allowable Load

Tower Height	GA55G	G.W. 1/4" E.H.S.	G.W. 5/16" E.H.S.	C.C.F. 1/4"	C.C.F. 5/16"	TH. 3/8"	T.B. 1/2"x12" E&J	GAC 3455
100'	3		1100'		54	18	9	3
110'	3		1100'		54	18	9	3
120'	3		1225'		54	18	9	3
130'	4	1700'		72		24	12	3
140'	4		1850'		72	24	12	3
150'	4		2000'		72	24	12	3
160'	4		2150'		72	24	12	3
170'	5	2775'		90		30	15	3
180'	5		2900'		90	30	15	3
190'	5		3175'		90	30	15	3
200'	5		3275'		90	30	15	3
210'	6		3375'		108	36	18	6
220'	6		3600'		108	36	18	6
230'	6		3725'		108	36	18	6
240'	6		3875'		108	36	18	6
250'	7		4675'		126	42	21	6
260'	7		4850'		126	42	21	6
270'	7		5100'		126	42	21	6
280'	8		5875'		144	48	24	6
290'	9	6900'		162		54	27	6
300'	9	7125'		162		54	27	6

Items shown above, plus ACWS, APL55G, SA253UA, BPC55G, 3/4X12PP, and required number of 55G 10' sections, are necessary for a complete "ground" guyed tower.

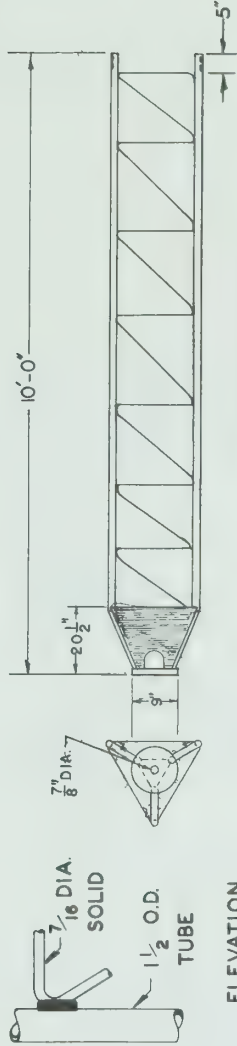
Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included in tower material.

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TOWER SPECIFICATIONS

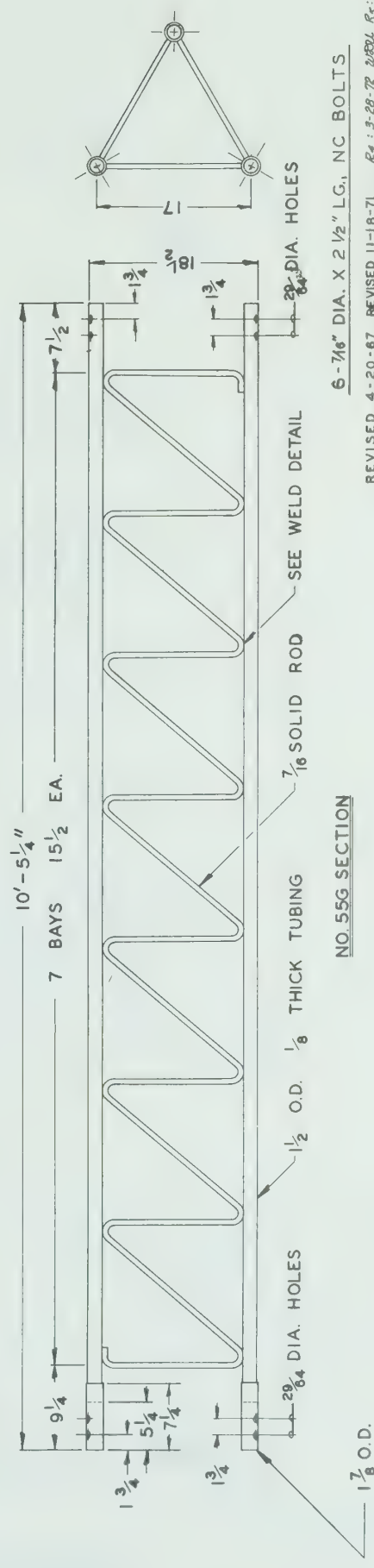
DISTANCE BETWEEN SIDE RAILS (CENTER TO CENTER)	17"
OVERALL LENGTH OF SECTION	10'-5 1/4"
WEIGHT PER SECTION	95 LBS.
SIDE RAIL DIAMETER AND GAUGE	1 1/2" O.D. 1/8" TH.
CROSS SECTIONAL AREA—ONE LEG	.5203 SQ. IN.
GROSS ALLOWABLE VERTICAL LOAD ON THE BOTTOM TOWER SECTION	42,000 LBS.
MAXIMUM ALLOWABLE AXIAL COMPRESSION OF THE CROSS SECTION OF ONE SIDE RAIL	14,000 LBS.
MEASURED TENSILE STRENGTH OF ONE SIDE RAIL	37,400 LBS.
MEASURED TENSILE STRENGTH OF ONE BOLTED LEG JOINT	37,400 LBS.
MAXIMUM ALLOWABLE TENSION IN EACH BOLTED LEG JOINT	14,960 LBS.
SAFE MOMENT OF RESTRAINT	17,160 FT. LBS.
L—UNBRACED LENGTH OF SIDE RAIL (DISTANCE BETWEEN CROSSPIECES)	15 1/2"
R—RADIUS OF GYRATION OF SIDE RAIL	.4897"
L/R FOR MAIN LEG MEMBER	31.7
WIND LOAD PER LINEAL FOOT OF TOWER AT THE HORIZONTAL WIND PRESSURES (PER SQUARE FOOT OF FLAT SURFACE) LISTED BELOW:	
30 LBS.	10.03
40 LBS.	13.37
50 LBS.	16.72

C-630655R



NO. 55 T.G. SECTION
NO SCALE

WELD DETAIL



NO. 55G SECTION

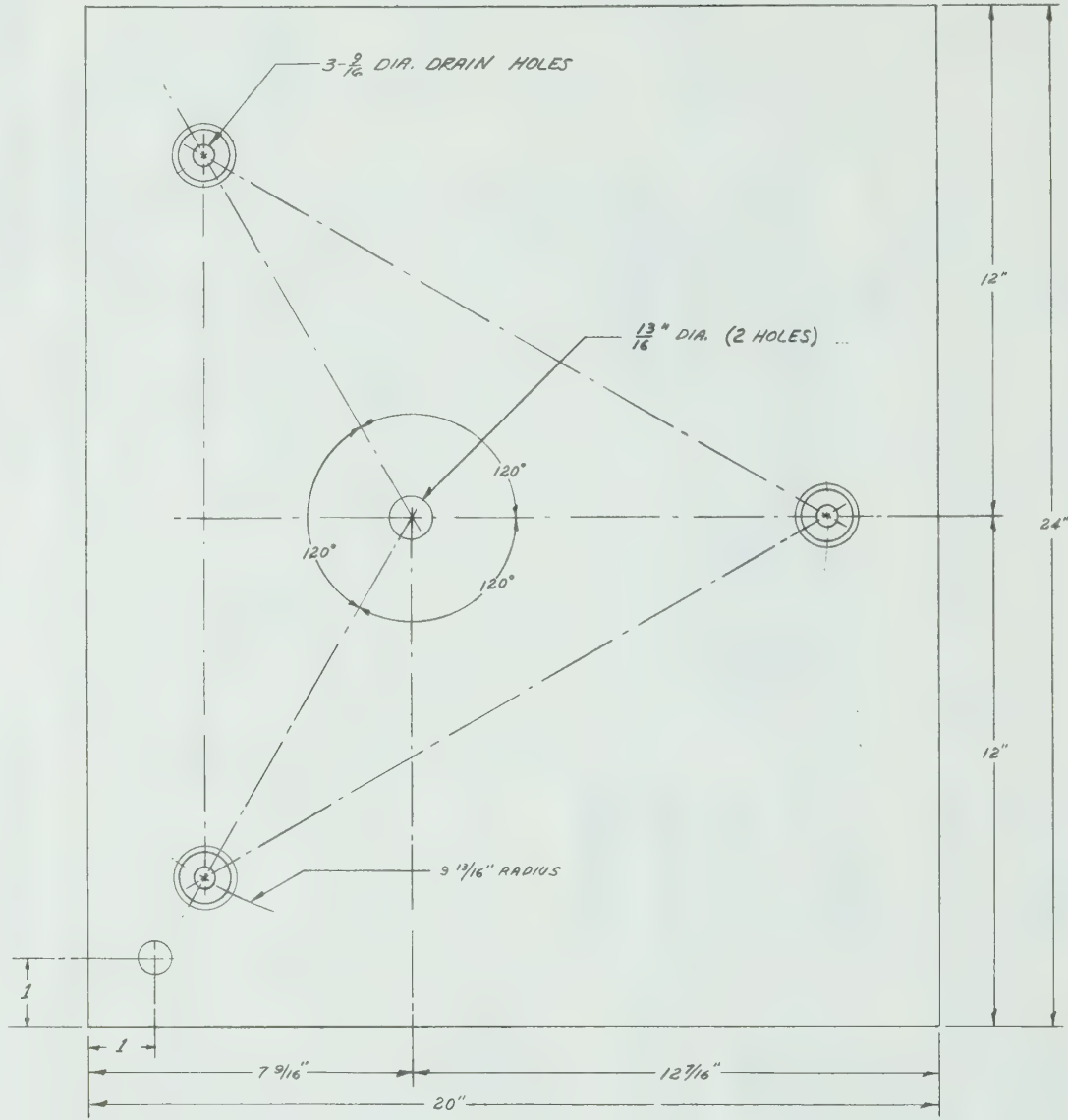
6-7/16" DIA. X 2 1/2" LG., NC BOLTS

REVISED 4-20-67	REVISED 11-18-71	REVISED 12-7-73	REVISED 12-7-73
DRAWN R.M.	CUSTOMER	TITLE	
CHECKED A.C.		MODEL 55 TOWER	
APPROVED D.W.C.		SECTION	
DATE 6-25-63	ROHN MANUFACTURING	DRAWING NO.	
SCALE	PEORIA, ILLINOIS		

NOTE: ALL DIMENSIONS IN INCHES EXCEPT AS NOTED

C-630655R

C-640655-R3



NOTE: AFTER GALVANIZING, CHECK DRAIN HOLES TO SEE THAT THEY ARE NOT PLUGGED.

BASE PLATE FOR CONCRETE PIER
(PART NO. BPC556)

NOTE: ^(R)
FOR USE WITH GUYED AND BRACKETED TOWERS ONLY.

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

TITLE		CUSTOMER		DRAWING NO.	
BASE PLATE FOR MODEL 55 TOWER		ROHN MANUFACTURING PEORIA, ILLINOIS		C-640655-R4	
DRAWN BY	BUENDIA	CHECKED	DEA	APPROVED	DAK
DATE	6-30-64	DATE	6-30-64	DATE	6-30-64
SCALE		SCALE		SCALE	
R4	DELETE EXCESS HOLES	9-31-79	10/24	9-31-79	10/24
R3	ADDED NOTE	7-6-76	DA	7-6-76	DA
R2	DRAIN HOLE WAS 3/8 DIA.	1-6-75	RDB	1-6-75	RDB
R1	ADDED NOTE INDICATED	1-31-74	JER	1-31-74	JER

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

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No. 65

COMMUNICATION TOWER

... LENDS ITSELF TO A WIDE VARIETY OF USES
MEETING A WIDE RANGE OF
COMMUNICATION NEEDS!

DESIGN

This tower can provide excellent rigidity and strength in heights up to 450 feet when properly guyed. Because of its rugged strength, the No. 65 Tower covers a broad range of communication uses, particularly where extraordinary windloading and height requirements must be met.

CONSTRUCTION

Constructed on 26-1/4" equilateral triangle pattern, utilizing 2" x 1/8" high-strength steel tube side rails. Sections 10' or 20' in length. Cross bracing is formed by a continuous 5/8" solid rod fashioned into a "zig-zag" shape, joining side rails every 22", electrically welded throughout.

FINISH

All tower sections are completely hot-dip galvanized *after fabrication* to protect all points of welding and construction against corrosion . . . and to provide an attractive installation. The quality of ROHN towers is always assured by a complete Quality Control program that begins with the examination of the raw material to assure that exact specifications are met and follows on through the finished product. You know its the best when its a Rohn Tower!

INSTALLATION

Fast up installation is another big reason for the selection of the No. 65 tower. Completely prefabricated 10' or 20' sections go up fast.

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ROHN®

6718 West Plank Road
P.O. Box 2000 • Peoria, Illinois 61656
Phone: 309-697-4400
TWX 910-652-0646
U.S.A.

Form No. 76798-R3

PRINTED IN U.S.A.

#65 TOWER

<u>PART NUMBER</u>		<u>WT.</u>
65G	10' tower section	173
6520G	20' tower section	330
*65GL	10' tower section w/lugs for torque arms	178
*6520GL	20' tower section w/lugs for torque arms	335
65TG	10' tapered base	150
15/16X16PP	Pier pin (for 65TG - one required)	3
SB65G	5' short base section for concrete	75
5/8X12BB	Concrete base bolt w/double nuts	1
DP65A	Drainage plates (set of 3) (use when bolting section directly onto concrete)	6
65JBK	Joint bolt kit	4-1/2
CP4A	Cap plates (set of 3 w/nuts and bolts)	15
APL4HA	Beacon plate (leg mounted) and two cap plates w/nuts and bolts	15
GA65G	Guy assembly	18
SA253UA	Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" support tube	28
TA656 ()	Channel torque arm, 6"	185
TA658 ()	Channel torque arm, 8"	225
DM654 (*)	Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	98
DM654TB (*)	Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe and tie back angle	116
EF5565	16' aluminum erection fixture for #55 and 10' #65 sections	70
EF6520	16' aluminum erection fixture for #55 and 20' #65 sections	90
EF6520RH	Erection fixture (same as above) with rotating head	100
WPCC65	Work platform	35

Note: Erection fixtures should be used to raise one 10' or 20' section at a time.

*See appropriate engineering drawing for elevations.

(*) This item is not to be used without proper design consideration.

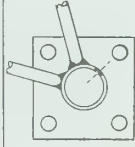
F.O.B. PEORIA, ILLINOIS.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

TOWER SPECIFICATIONS	
DISTANCE BETWEEN SIDE RAILS (CENTER TO CENTER)	24 1/4"
OVERALL LENGTH OF SECTION	20' 0 5/8"
WEIGHT PER SECTION	290 LBS.
SIDE RAIL DIAMETER AND GAUGE *	1.900 D.X. 145 WALL
GROSS SECTIONAL AREA- ONE LEG	.799 SQ. IN.
GROSS ALLOWABLE VERTICAL LOAD ON THE BOTTOM TOWER SECTION	63,700 LBS.
MAXIMUM ALLOWABLE AXIAL COMPRESSION OF THE CROSS SECTION OF ONE SIDE RAIL	21,250 LBS.
MEASURED TENSILE STRENGTH OF ONE SIDE RAIL	51,900 LBS.
MEASURED TENSILE STRENGTH OF ONE BOLTED LEG JOINT	51,900 LBS.
MAXIMUM ALLOWABLE TENSION IN EACH BOLTED LEG JOINT	20,800 LBS.
SAFE MOMENT OF RESTRAINT	36,400 LBS.
2- UNBRACED LENGTH OF SIDE RAIL (DISTANCE BETWEEN CROSSPIECES)	21 3/8"
R- RADIUS OF GYRATION OF SIDE RAIL	.623
L/R FOR MAIN LEG MEMBER	34.3
WIND LOAD PER LINEAL FOOT OF TOWER AT THE HORIZONTAL WIND PRESSURES (PER SQUARE FOOT OF FLAT SURFACE)	
LISTED BELOW:	30 LBS. 40 LBS. 50 LBS.
	13.77 18.36 22.96

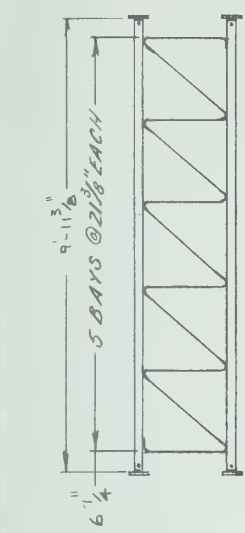
GENERAL NOTES

1. ALL SECTIONS ARE HOT DIP GALVANIZED AFTER FABRICATION.
2. ALL SECTIONS CAN BE INSTALLED WITH EITHER END UP, EXCEPT NO. 65TG.
- * 3. 2" O.D. X 1/8" WALL TUBING ALTERNATE.
4. 12- 9/8" X 2 1/2" BOLTS REQUIRED PER SECTION, EXCEPT NO. 65TG.
5. FOR FABRICATION DETAIL SECTIONS NO. 65G & 65TG SEE DWG. NO. 8770822 (DWG. FOR SHOP USE ONLY).
- FOR FABRICATION DETAIL SECTION NO. 6520G SEE DWG. NO. 8771029 (DWG. FOR SHOP USE ONLY).

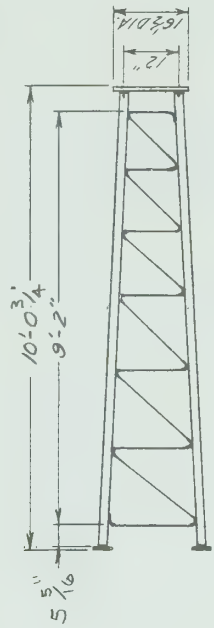


7 1/8" DIA. HOLE JUST ABOVE WELD,
TOP & BOTTOM EACH LEG (ALL SECTIONS
EXCEPT NO. 65TG WHERE THEY ARE
REQUIRED AT BOTTOM ONLY).

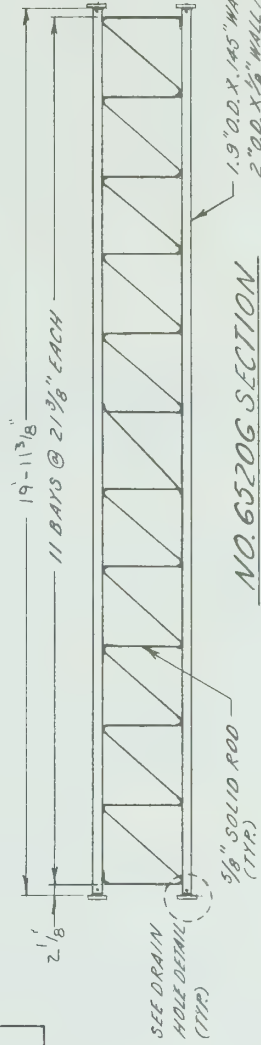
DRAIN HOLE DETAIL



NO. 65G SECTION

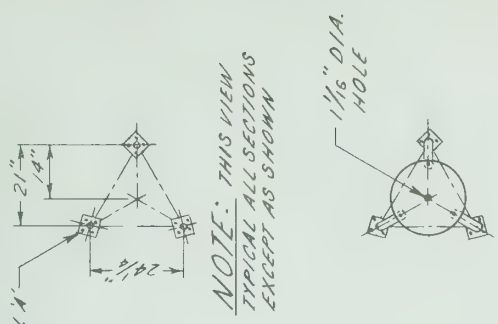


NO. 65TG SECTION



NO. 6520G SECTION

TOWER SECTIONS



NOTE: THIS VIEW
TYPICAL ALL SECTIONS
EXCEPT AS SHOWN

R11	REV	R	R	DETAIL & DIMENSIONS ON SECTIONS 3-8-92	6/5
A10	REV	DIMS	ON SECTIONS	10/19/01	LEB
R9	REV	DRAW		12/1/78	6/5
No	A	Rev	on	Description	A Date
<div> <div>U</div> <div>Unarco-Rohn</div> <div>Division of Unarco Industries, Inc.</div> </div>					
<div> <div>MODEL 65G TOWER SECTIONS</div> </div>					
<div> <div>Scale</div> <div>NONE</div> </div>					
<div> <div>Drawn by</div> <div>GLS</div> <div>11/27/78</div> </div>					
<div> <div>Checked by</div> <div>MDA</div> <div>9-11-79</div> </div>					
<div> <div>Approved by Engineering</div> <div>7/5</div> <div>4-16-79</div> </div>					
<div> <div>Approved by Production</div> <div></div> <div></div> </div>					
<div> <div>Approved by Sales</div> <div>PAI</div> <div>4-17-79</div> </div>					
<div> <div>Drawing Number</div> <div>CG30665 R11</div> </div>					

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ROHN® No. 80

COMMUNICATION TOWER

This tower is designed specifically for microwave installations, heavy duty communication, TV & FM broadcast and meteorological equipment installations.

CONSTRUCTION

The No. 80 Rohn Tower is constructed in an equilateral triangular pattern with either steel pipe or solid steel legs and tubular or angle steel cross-bracing with bolted construction. The triangular size is 41" on leg centers and the diameter of the tower legs vary to meet the requirements of the installation. This feature permits considerable flexibility in supplying a tower tailored to specifically meet and adequately handle the equipment to be installed.

FINISH

All components of this tower are completely Hot Dip Galvanized *after* fabrication to protect all areas of the tower. A minimum of 2 ounces of zinc per square foot of surface is applied throughout.

RATING

This tower is rated for installation up to 1000 feet using variable size and weight of tubular or solid steel components. Each tower is individually engineered to handle a particular job.



440' No. 80 Tower

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ROHN®

P.O. Box 2000 Peoria, IL 61656

TWX: 910-652-0646

FAX: 309-697-5612

Telephone: 309-697-4400

#80 TOWER

PART NUMBER		WT.
83P	20' standard tower section	435
83PH	20' standard tower section	520
84	20' standard tower section	565
84H	20' standard tower section	685
845H	20' standard tower section	715
/ 85 /	20' standard tower section	730
/ 85H /	20' standard tower section	900
83PX	20' x-braced tower section	550
83PHX	20' x-braced tower section	640
84X	20' x-braced tower section	680
84XTA	20' x-braced tower section (for use with TA80H)	1110
84HX	20' x-braced tower section	800
/ 84HXTA /	20' x-braced tower section (for use with TA80H)	1230
/ 84HXTA3 /	3' extension for 84HXTA tower section	225
/ 845HX /	20' 84HX transition section with 85 feet	830
/ 85X /	20' x-braced tower section	845
/ 85HX /	20' x-braced tower section	1015
84HC	15' standard tower section	545
84HXC	15' x-braced tower section	620
/ 83ACL /	Anti-climb panels	595
/ 84ACL /	Anti-climb panels	600
80TB *	5' welded tapered base section	390
/ 85TB / *	5' welded tapered base section	455
/ 80TBKD / *	5' knocked down tapered base section	400
/ 80TBI / *	5' welded tapered base section (drilled to fit base insulator)	350
/ 85TBI / *	5' welded tapered base section (drilled to fit base insulator)	450
/ 80TBKDI / *	5' knocked down tapered base section (drilled to fit base insulator)	525
3/4X16BB	Concrete base bolt with double nuts (12 required)	1-1/2
15/16X16PP	Pier pin for tapered bases (one required)	3
DP80A	Drainage plates (set of 3)	20
/ DP85A /	Drainage plates (set of 3)	44
GA80	Guy assembly (bracket with torque bars)	115
GA85	Guy assembly (bracket with torque bars)	140
TA838 **	8" channel type torque arm (7-1/2')	335
TA8310 **	10" channel type torque arm (7-1/2')	420
/ TA8312 / **	12" channel type torque arm (7-1/2')	480
TA848 **	8" channel type torque arm (7-1/2')	340
TA8410 **	10" channel type torque arm (7-1/2')	425
/ TA8412 / **	12" channel type torque arm (7-1/2')	585
/ TA858 / **	8" channel type torque arm (7-1/2')	345
/ TA8510 / **	10" channel type torque arm (7-1/2')	430
/ TA8512 / **	12" channel type torque arm (7-1/2')	595
TA80H **	Heavy duty microwave torque arm (15')	740
/ TA85H / **	Heavy duty microwave torque arm (15')	745
DM80F **	Dish mount, face mounted, with 4" (4-1/2" O.D.) 5' long pipe	200
DM80FTBC **	Dish mount (same as above) with tie back clips	205
DM80FTBT **	Dish mount (same as above) with tie back tube	265
APL83M	Beacon plate for inside or outside tower (for sections 83P and 83PH)	50
APL84M	Beacon plate for inside or outside tower (for sections 84 and 84H)	50
/ APL85M /	Beacon plate for inside or outside tower (for sections 85 and 85H)	50
APL6A	Beacon plate (leg mounted) and two cap plates with nuts and bolts (for sections 83P, 83PH, 84 and 84H)	20
APL7A	Beacon plate (leg mounted) and two cap plates with nuts and bolts (for sections 85 and 85H)	24
CP6A	Cap plates (set of 3 w/nuts and bolts) for sections 83P, 83PH, 84 and 84H	7
CP7A	Cap plates (set of 3 w/nuts and bolts) for sections 85 and 85H	11
L80	Ladder, standard, leg mounted - 10' or 20' sections	4/ft.
/ L80H /	Ladder, heavy, leg mounted - 10' or 20' sections	8/ft.
L80F	Ladder, standard, face mounted - 10' or 20' sections	4/ft.
/ L80FH /	Ladder, heavy, face mounted - 10' or 20' sections	8/ft.
L80IF	Ladder, standard, inside corner mounted - 20' sections	4/ft.
/ L80IFH /	Ladder, heavy, inside corner mounted - 20' sections	8/ft.
S80	Step bolts, one leg	1/ft.
/ SOL80H /	Ladder step-off assembly for bypassing heavy duty torque arm, consisting of two platforms and 30' face mounted standard ladder	213
/ SOH80H /	Ladder step-off assembly for bypassing heavy duty torque arm, consisting of two platforms and 30' face mounted heavy ladder	331
SM80	Shims (set of 15)	
SM85	Shims (set of 15)	
For heavy 1/8" braces on standard sections		add 90# wt.
For heavy 1/8" braces on x-braced sections		add 180# wt.
/ Not a stock item. Allow sufficient time for fabricating. /		

*Towers mounted on this base must be guyed at all times.

**This item is not to be used without proper design consideration.

PRICES AVAILABLE UPON REQUEST.

PRICES AVAILABLE UPON REQUEST.

TOWER SECTION SCHEDULE

SECTION PT. NO ***	LEGS			FLANGE BOLTS		STEP BOLTS		BRACES		BRACE BOLTS	
	PIPE SIZE	PT. NO.	QTY.	SIZE PT. NO.	QTY.	PT. NO.	QTY.	PT. NO.	QTY.	SIZE PT. NO.	QTY.
83P	2" STD.	KL56	3	3/4 x 2 1/2 2100496A	12			KB35 KB36	24 6	1/2 x 1/2 2100186A	33
	2" STD.	KL56 KL56S	2 1	3/4 x 2 1/2 2100496A	12			KB35 KB36	24 6	1/2 x 1/2 2100186A	33
	2" X-STR.	KL57	3	3/4 x 2 1/2 2100496A	12		5/8 STEP	KB35 KB36	24 6	1/2 x 1/2 2100186A	33
83PHS	2" X-STR.	KL57 KL57S	2 1	3/4 x 2 1/2 2100496A	12		5/8 STEP	KB35 KB36	24 6	1/2 x 1/2 2100186A	33
84	2 1/2" STD.	KL60	3	3/4 x 2 1/2 2100496A	12			KB35 KB36	24 6	1/2 x 1/2 2100186A	33
84S	2 1/2" STD.	KL60 KL60S	2 1	3/4 x 2 1/2 2100496A	12		5/8 STEP	KB35 KB36	24 6	1/2 x 1/2 2100186A	33
84H	2 1/2" X-STR.	KL61	3	3/4 x 2 1/2 2100496A	12			KB35 KB36	24 6	1/2 x 1/2 2100186A	33
84HS	2 1/2" X-STR.	KL61 KL61S	2 1	3/4 x 2 1/2 2100496A	12		5/8 STEP	KB35 KB36	24 6	1/2 x 1/2 2100186A	33
84HC	2 1/2" X-STR.	KL159	3	3/4 x 2 1/2 2100496A	12			KB35 KB36	18 6	1/2 x 1/2 2100186A	27
84HCS	2 1/2" X-STR.	KL159 KL159S	2 1	3/4 x 2 1/2 2100496A	12		5/8 STEP	KB35 KB36	18 6	1/2 x 1/2 2100186A	27
85	3" STD.	KL64	3	7/8 x 3/2 2100636A	12			KB35 KB36	24 6	1/2 x 1/2 2100186A	33
85S	3" STD.	KL64 KL64S	2 1	7/8 x 3/2 2100636A	12		5/8 STEP	KB35 KB36	24 6	1/2 x 1/2 2100186A	33
85H	3" X-STR.	KL65	3	7/8 x 3/2 2100636A	12			KB35 KB36	24 6	1/2 x 1/2 2100186A	33
85HS	3" X-STR.	KL65 KL65S	2 1	7/8 x 3/2 2100636A	12		5/8 STEP	KB35 KB36	24 6	1/2 x 1/2 2100186A	33
85HC	3" X-STR.	KL163	3	7/8 x 3/2 2100636A	12			KB35 KB36	18 6	1/2 x 1/2 2100186A	27
85HCS	3" X-STR.	KL163 KL163S	2 1	7/8 x 3/2 2100636A	12		5/8 STEP	KB35 KB36	18 6	1/2 x 1/2 2100186A	27
* 845H	2 1/2" X-STR.	KL68	3	7/8 x 3/2 2100636A	12			KB35 KB36	24 6	1/2 x 1/2 2100186A	33
* 845HS	2 1/2" X-STR.	KL68 KL68S	2 1	7/8 x 3/2 2100636A	12		5/8 STEP	KB35 KB36	24 6	1/2 x 1/2 2100186A	33

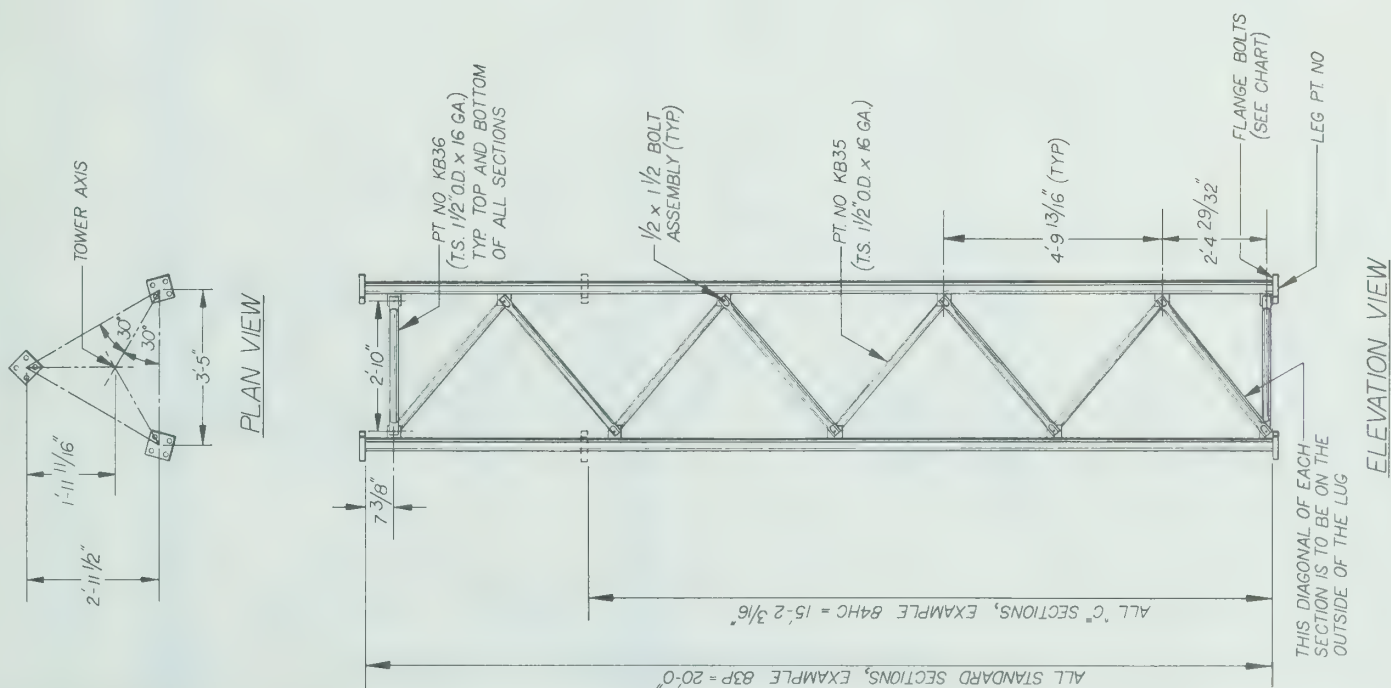
* TRANSITION SECTION WITH 7" FLANGE PLATES AT THE BOTTOM AND 6" FLANGE PLATES AT THE TOP.

* TRANSITION SECTION WITH 7" FLANGE PLATES AT THE BOTTOM AND 6" FLANGE PLATES AT THE TOP. ALL 7" FLANGE PLATES MUST BE BETWEEN NO. 85 SECTIONS AND ALL OTHER SECTIONS.

*** SECTION PART NUMBERS ENDING WITH AN "S" INDICATE THAT THE SECTIONS WILL HAVE STEP BOLTS ON ONE LEG FOR CLIMBING.

GENERAL NOTES:

- 1 PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
2
3 FOR LEG FABRICATION, SEE DRAWINGS NUMBERED:
4 C760013, C760014A, C760015, C760016, C760017,
5 C760018, C760019, AND C760020.
6
7 FOR BRACE FABRICATION, SEE DRAWING NUMBER
8 B660719
9
10 FABRICATION DRAWINGS ARE FOR SHOP USE ONLY.



R3	REDRAWN	No. ▲ Revision Description	12-B-81	A/J
Title		Model NO 80 TOWER STANDARD SECTIONS	12-B-81	A/J
Scale	NONE	Drawn by A/J	12-22-81	
Checked by G-PW		12-22-81		
Approved by Engineering		75	12-22-81	
Approved by Production				
As Issued				
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TOWER SECTION SCHEDULE

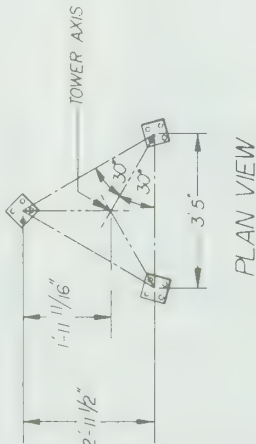
SECTION PT NO.	LEGS		FLANGE BOLTS		STEP BOLTS		BRACES		BRACE FITS
	PIPE SIZE	PT NO.	QTY	SIZE PT NO.	QTY	PT NO.	PT NO.	QTY	SIZE PT NO.
83PX	2" STD.	KL58	3	3/4 x 2 1/2 20049GA	12		KB35 KB36	48 6	1/2 x 1 1/2 210018GA
83PXS	2" STD.	KL58 KL58S	2 1	3/4 x 2 1/2 20049GA	12	5/8 STEP	KB35 KB36	48 6	1/2 x 1 1/2 210018GA
83PHX	2" X-STR.	KL59	3	3/4 x 2 1/2 20049GA	12		KB35 KB36	48 6	1/2 x 1 1/2 210018GA
83PHXS	2" X-STR.	KL59 KL59S	2 1	3/4 x 2 1/2 20049GA	12	5/8 STEP	KB35 KB36	48 6	1/2 x 1 1/2 210018GA
84X	2 1/2" STD.	KL62	3	3/4 x 2 1/2 210049GA	12		KB35 KB36	48 6	1/2 x 1 1/2 210018GA
84XS	2 1/2" STD.	KL62 KL62S	2 1	3/4 x 2 1/2 210049GA	12	5/8 STEP	KB35 KB36	48 6	1/2 x 1 1/2 210018GA
84HX	2 1/2" X-STR.	KL63	3	3/4 x 2 1/2 210049GA	12		KB35 KB36	48 6	1/2 x 1 1/2 210018GA
84HXS	2 1/2" X-STR.	KL63 KL63S	2 1	3/4 x 2 1/2 210049GA	12	5/8 STEP	KB35 KB36	48 6	1/2 x 1 1/2 210018GA
84HXC	2 1/2" X-STR.	KL61	3	3/4 x 2 1/2 210049GA	12		KB35 KB36	36 6	1/2 x 1 1/2 210018GA
84HXCS	2 1/2" X-STR.	KL61 KL61S	2 1	3/4 x 2 1/2 210049GA	12	5/8 STEP	KB35 KB36	36 6	1/2 x 1 1/2 210018GA
85X	3" STD.	KL66	3	7/8 x 3/2 210063GA	12		KB35 KB36	48 6	1/2 x 1 1/2 210018GA
85XS	3" STD.	KL66 KL66S	2 1	7/8 x 3/2 210063GA	12	5/8 STEP	KB35 KB36	48 6	1/2 x 1 1/2 210018GA
85HX	3" X-STR.	KL67	3	7/8 x 3/2 210063GA	12		KB35 KB36	48 6	1/2 x 1 1/2 210018GA
85HXS	3" X-STR.	KL67 KL67S	2 1	7/8 x 3/2 210063GA	12	5/8 STEP	KB35 KB36	48 6	1/2 x 1 1/2 210018GA
85HXC	3" X-STR.	KL65	3	7/8 x 3/2 210063GA	12		KB35 KB36	36 6	1/2 x 1 1/2 210018GA
85HXCS	3" X-STR.	KL65 KL65S	2 1	7/8 x 3/2 210063GA	12	5/8 STEP	KB35 KB36	36 6	1/2 x 1 1/2 210018GA
*845HX	2 1/2" X-STR.	KL69	3	7/8 x 3/2 210063GA	12		KB35 KB36	48 6	1/2 x 1 1/2 210018GA
*845HXS	2 1/2" X-STR.	KL69 KL69S	2 1	7/8 x 3/2 210063GA	12	5/8 STEP	KB35 KB36	48 6	1/2 x 1 1/2 210018GA

* TRANSITION SECTION WITH 7" FLANGE PLATES AT THE BOTTOM AND 6" FLANGE PLATES AT THE TOP.

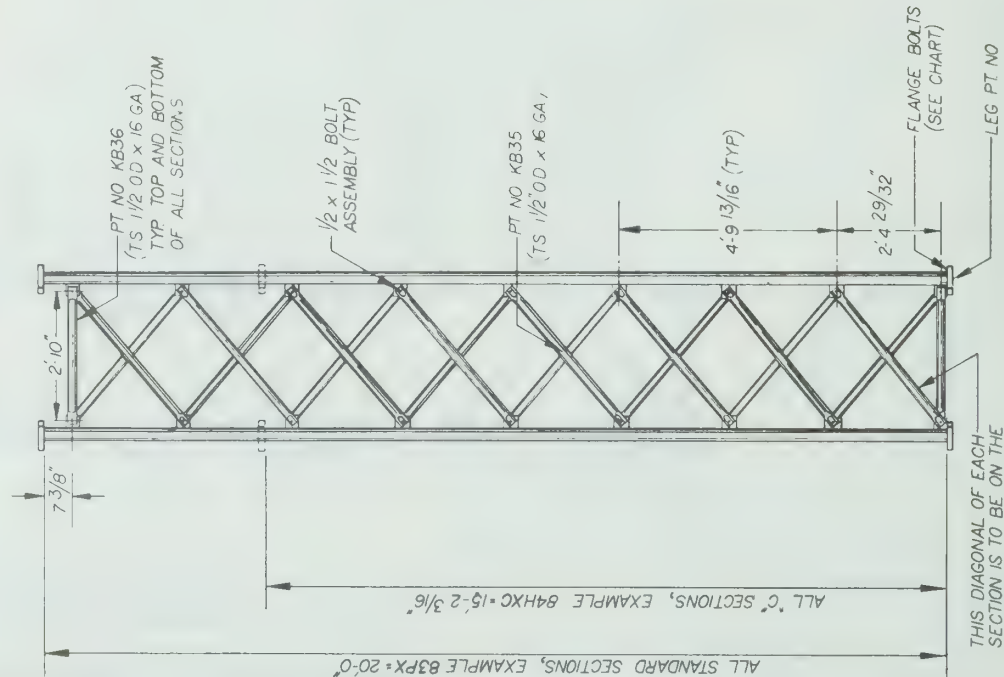
** 7" FLANGE PLATES MUST BE BETWEEN NO. 85 SECTIONS AND ALL OTHER SECTIONS.
 ** SECTION PART NUMBERS ENDING WITH AN "S" INDICATE THAT THE SECTIONS WILL HAVE STEP BOLTS ON ONE LEG FOR CLIMBING.

GENERAL NOTES:

1. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
2. FOR LEG FABRICATION, SEE DRAWINGS NUMBERED: C760013, C760014A, C760015, C760016, C760017, C760018, C760019, AND C760020.
3. FOR BRACE FABRICATION, SEE DRAWING NUMBER B660719.
4. FABRICATION DRAWINGS ARE FOR SHOP USE ONLY.

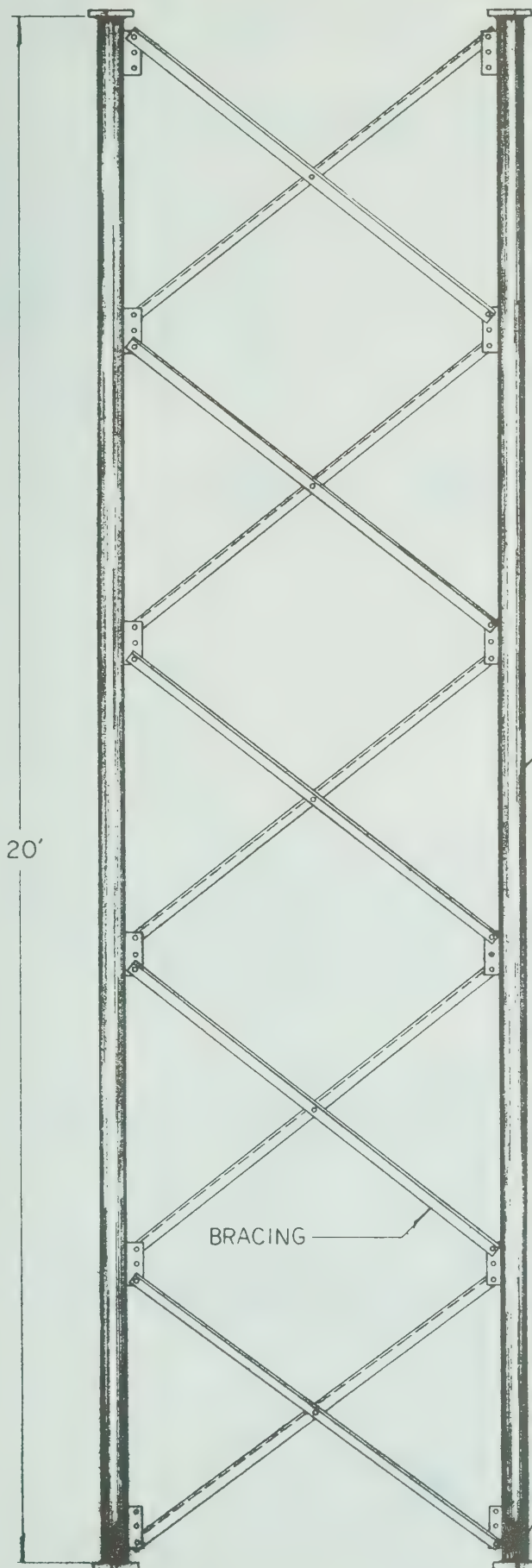


PLAN VIEW



ELEVATION VIEW

R3	REDRAWN	12-17-81	RKB
Title Unarco-Rohn MODEL NO. 80 TOWER CROSS-BRACED SECTIONS		Date 12-17-81	
Scale NONE		Drawn by RKB 12-17-81	
Checked by GFW 12-22-81		Fabricated by 12-22-81	
Approved by Engineering TS 12-22-81		Approved by Production Date	
Approved by Sales GFW 12-22-81		Drawing Number C681229 R3	



NOTE:
AT END CLIPS, USE
HOLES NEAREST
FLANGE PLATES.

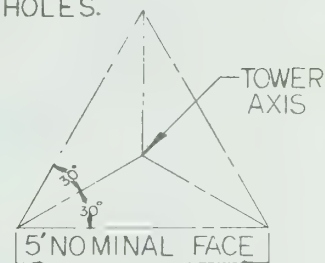
NOTE:
AT INTERMEDIATE CLIPS, USE
TOP AND BOTTOM HOLES.

LEG

BRACING

DRAIN HOLE PROVIDED AT THE
BASE OF EACH LEG OF SECTION

FLANGE PLATE

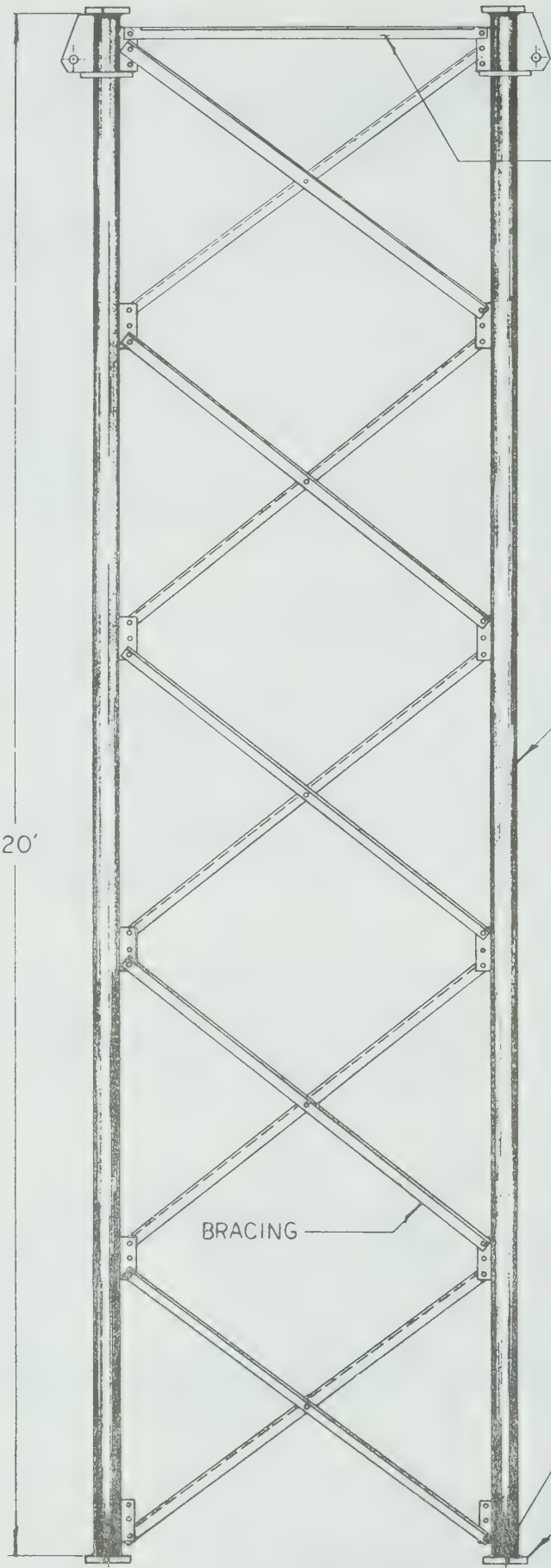


PLAN VIEW

TYPICAL SECTION FOR 90 GUYED TOWER

NOTE:
LEG MARK NO. STAMPED AT THE
BOTTOM OF EACH LEG OF EACH SECTION.

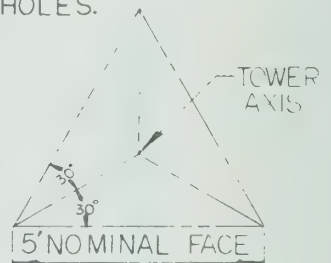
NO.	DESCRIPTION	DATE	BY
ROHN			
TITLE 'TYPICAL 20' SECTION WITH NOMN. 5FT. FACE' FOR 90 GUYED TOWER			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
FILE NO.			
SCALE	1" = 1'-0"		
DATE	2-4-71	DATE	
BY	RL	BY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES			
SEC.	TOL.	FACE	ANGL.
±	±	±	±
DWG. NO.			C-710208



NOTE:
AT TOP CLIPS, USE HOLES AS SHOWN.

GIRT: TO BE USED @ ALL GUY LEVELS (BACK TO BACK)

NOTE:
AT INTERMEDIATE CLIPS, USE TOP AND BOTTOM HOLES.



PLAN VIEW

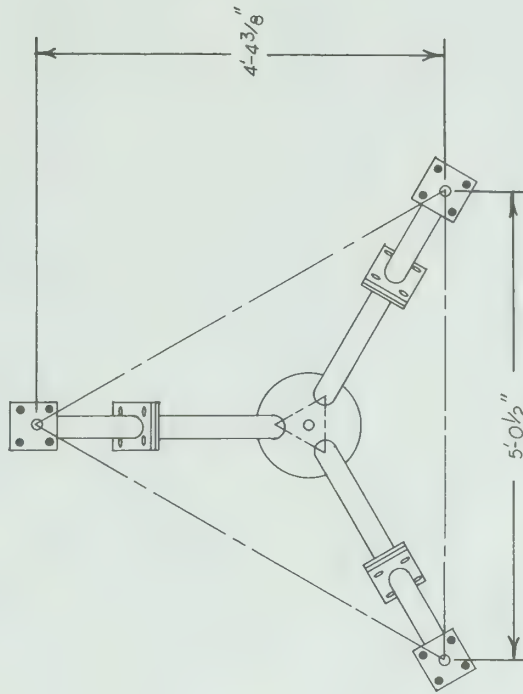
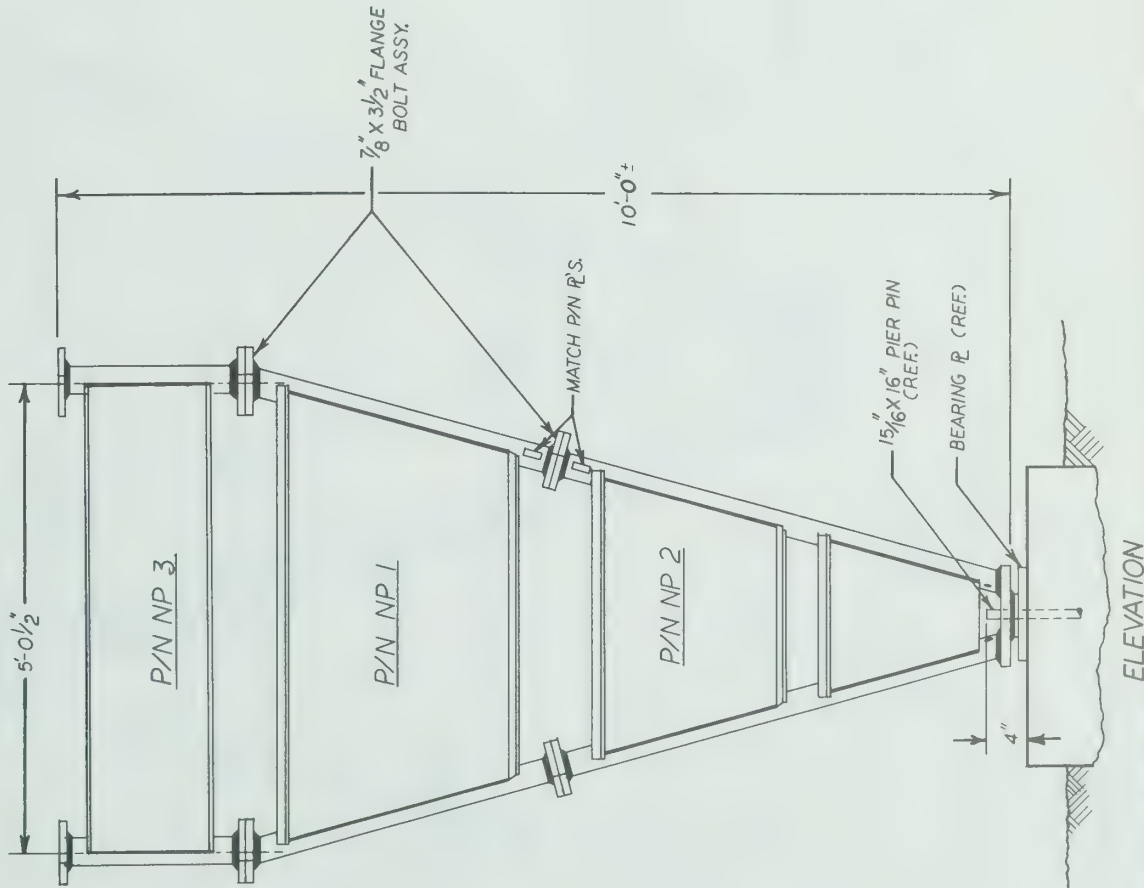
TYPICAL GUY SECTION FOR 90 GUYED TOWER

NOTE:
LEG MARK NO. STAMPED AT THE BOTTOM OF EACH LEG OF EACH SECTION.

NO.	DESCRIPTION	DATE	BY
<p>ROHN</p>			
<p>TITLE: TYPICAL 20' GUY SECT. WITH NOMN. 5FT. FACE. FOR 90 GUYED TOWER</p>			
<p>THIS DRAWING IS THE PROPERTY OF ROHN & CO. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.</p>			
SCALE: 1" = 10'	DATE: 2-7-71	FILE NO.	
DESIGNED BY: RL	CHECKED BY: RL	DATE: 11/10/71	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES		DWG NO.	C-710221

BILL OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	DWG. NO.
1	1	NP 1	UPPER BASE ASSY.	C721216
2	1	NP 2	LOWER BASE ASSY.	"
3	1	NP 3	BASE EXTENSION	C730308
4	24	210063GA	7/8 X 3 1/2 BOLT ASSY	C770404

NOTE: MUST BE ASSEMBLED W/ IDENTICAL MATCH P/N'S ON THE SAME LEG.



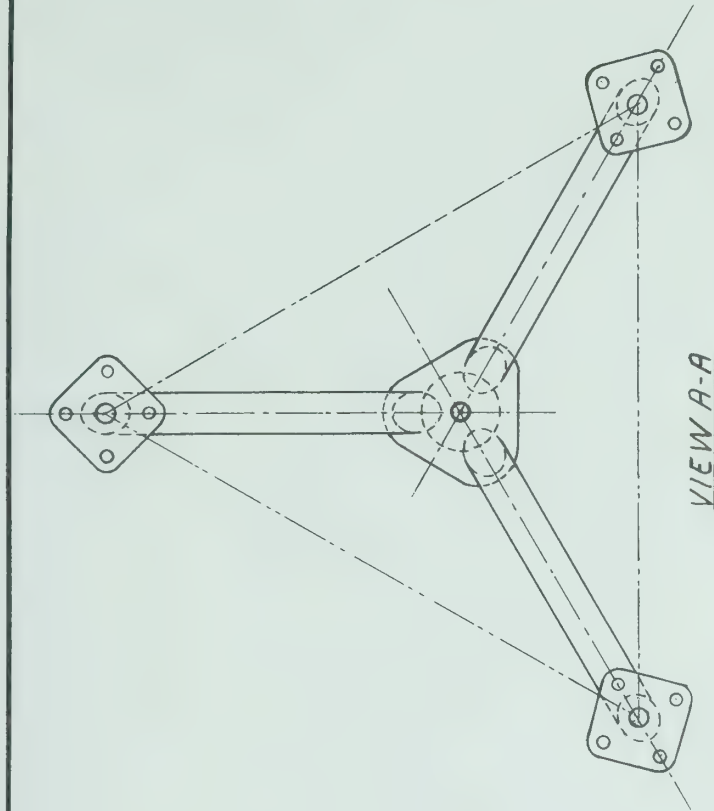
R5	REDRAWN	1-30-85	GLJ
No	Revision	Description	Date
UNR-Rohn Division of UNR Inc.			
Title TAPERED BASE ASSEMBLY FOR MODEL 90 SERIES TOWER			
Scale NONE			
Drawn by	WDU	Date	3-14-73
Checked by	TS	Date	3-14-73
Approved by Eng. netting	CW	Date	3-14-73
Approved by Production		Date	
Approved by Sales	GR	Date	3-14-73
Drawing Number		C730307	
Part Number		R5	

Unless otherwise specified dimensions are given in inches

Tolerances: Fractions ±, Decimals ±, Angles ±, Weight ±

This drawing is the property of UNR-Rohn. It is to be used for the reproduction of the drawing only. It is not to be used for the reproduction of the drawing without the written consent of UNR-Rohn.

ASSY P/N TB90A



VIEW A-A

R ₃	UPDATED DWG.				12-14-78	KTL
R ₂	ADD ASSY. NOS. & FAB. DWG. NO.				5/24/77	GLS
R ₁	CHANGED HEIGHT & PIER PIN SIZE				11-21-73	JER
NO.	DESCRIPTION			DATE		BY
REVIEWS						
R O H N						
TAPERED BASE SECTION						
FOR MODEL 80 TOWER						
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.						
TITLE		FILE NO.				
SCALE	NONE	MATERIAL	FINISH	WT		
DWN BY:	H. ARCHANGEL	DATE: MAR 13, 1969			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	
C'D BY:	A. JOHNSON	DATE: 3-13-69			DWG. NO.	
APPD	PAL	DAY: 13-69			B 690343 R	
		TOLERANCES			ANGLES	
		DEC			FRACTION	
		±			±	

PRINTED IN U.S.A.

C TOWER

24" - COMPONENT PARTS

<u>PART NUMBER</u>		<u>WT.</u>
C03	24" x 20' tower section	230
<u>/ C03L* /</u>	24" x 20' tower section w/lugs for torque arms	235
C05P	3' 7" tapered base	152
<u>/ C28A /</u>	Tapered base for Austin A4722B insulator	146
<u>/ C28L /</u>	Tapered base for Lapp 10027 insulator	188
C07	Joint bolt kit (includes 15 nuts & bolts)	5
C08	Brace bolt kit (includes 30 nuts & bolts)	4
C09S	Guy bracket assembly (intermediate)	61
<u>/ C09T /</u>	Guy bracket assembly (top)	71
C21A	Top plate and beacon plate	26
BP6	Bearing plate	25
15/16X16PP	Pier pin (one required for BP6)	3
SA253UA	Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube	28
TACC6**	Channel torque arm, 6" (includes leg lug)	162
<u>/ TACC8** /</u>	Channel torque arm, 8" (includes leg lug)	210
C36	Base feet and bolts	38
DMCC4**	Side face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	92
DMCC4TB**	Side face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe and tie back angle	110
<u>/ WPCC65 /</u>	Work platform	26

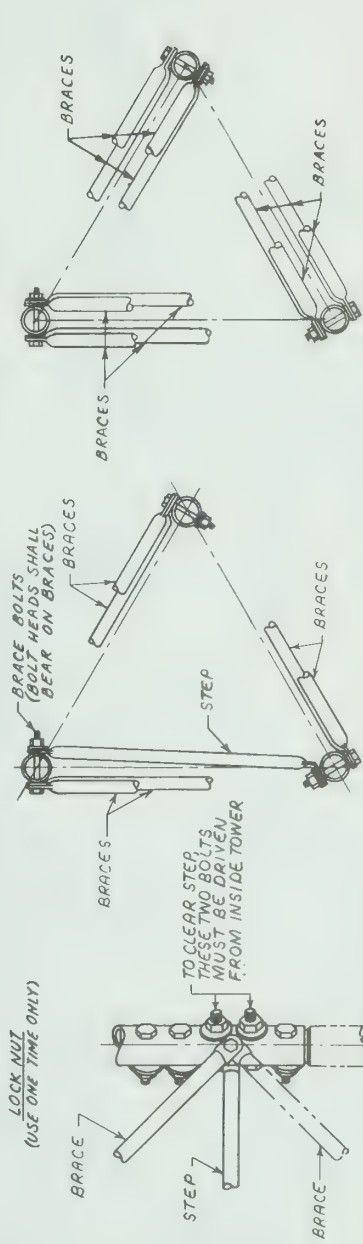
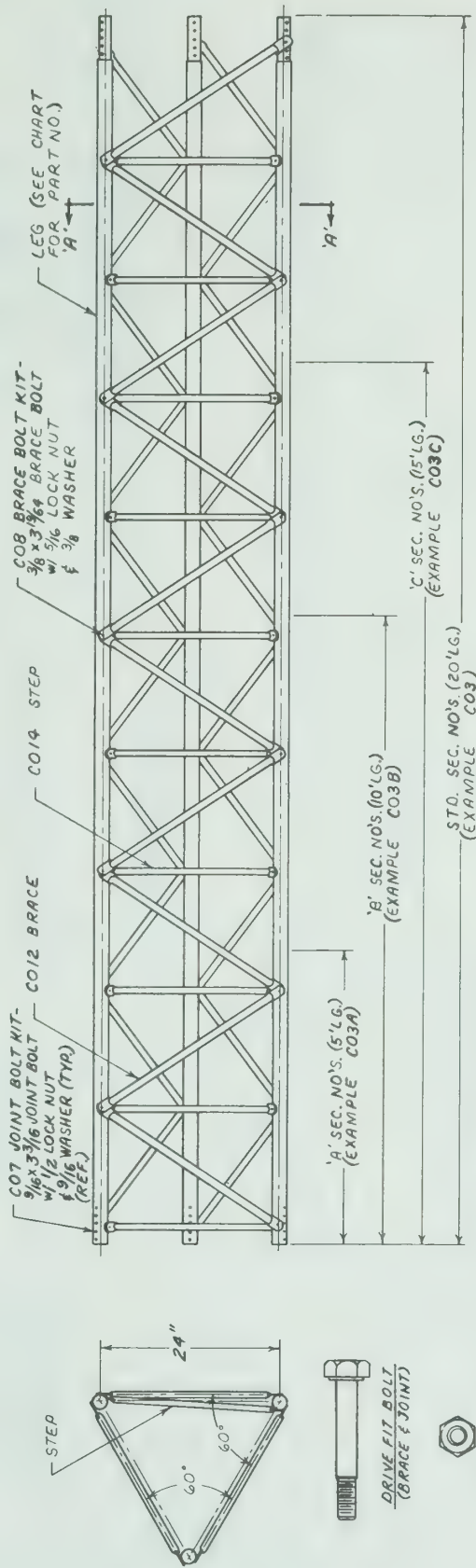
*Determined by distance in feet from base to lug. See appropriate engineering drawings for elevations.

**This item is not to be used without proper design consideration.

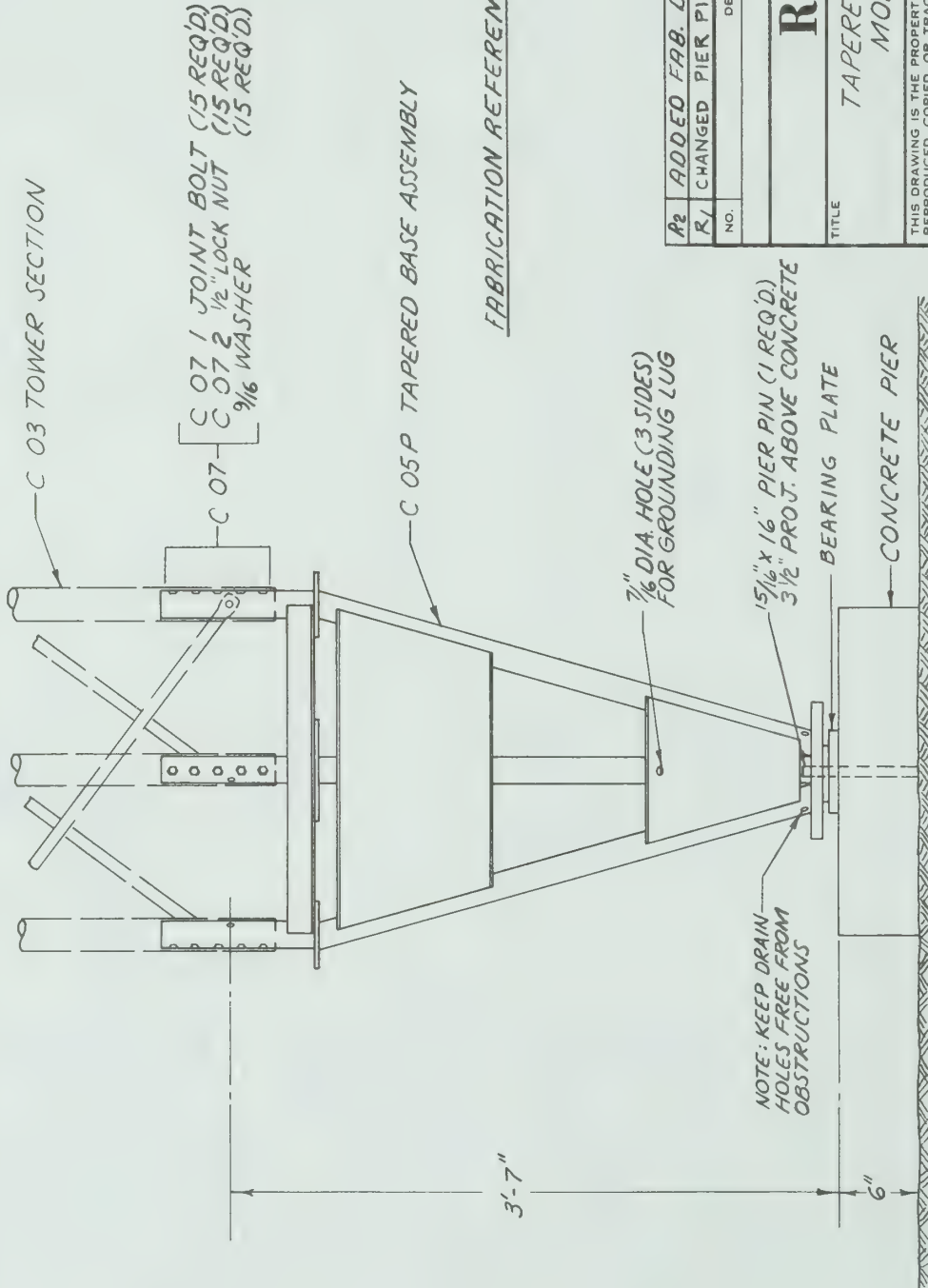
/ Not a stock item. Allow sufficient time for fabricating. /

Prices available upon request.

C TOWER SECTION ASS'Y. NO'S. & QTY'S.												PART NO.	DESCRIPTION	DWG. NO.
CO3	CO3MS	CO3DB	CO3A	CO3AMS	CO3ADB	CO3B	CO3BMS	CO3BDB	CO3C	CO3CMS	CO3CDB			
3	3	3	-	-	-	-	-	-	-	-	-	CO31	LEG-2 1/4" O.D.-12GA x 20' LONG	C 791251
-	-	-	3	3	3	-	-	-	-	-	-	KL210	LEG-2 1/4" O.D.-12GA x 5' LONG	C 771039
-	-	-	-	-	-	3	3	3	-	-	-	KL211	LEG-2 1/4" O.D.-12GA x 10' LONG	C 771039
-	-	-	-	-	-	-	-	-	3	3	3	KL212	LEG-2 1/4" O.D.-12GA x 15' LONG	C 771039
30	30	60	6	12	15	15	30	21	21	21	42	CO12	BRACE 1" O.D.-16GA	C 791259
10	-	-	3	-	6	-	-	-	8	-	-	CO14	STEP 1" O.D.-16GA	C 791250
30	30	30	9	9	9	18	18	18	24	24	24	COB1	BRACE BOLT - 3/8" x 3 1/2"	
30	30	30	9	9	9	18	18	18	24	24	24	2300003	3/8" LOCK NUT	
30	30	30	9	9	9	18	18	18	24	24	24	2500086	3/8" WASHER	
STD. (20UG)	20' W/6 STEPS	20' DBL BRACE	STD. (5' LG.)	5' W/6 STEPS	5' DBL BRACE	STD. (10' LG.)	10' W/6 STEPS	10' DBL BRACE	STD. (15' LG.)	15' W/6 STEPS	15' DBL BRACE			

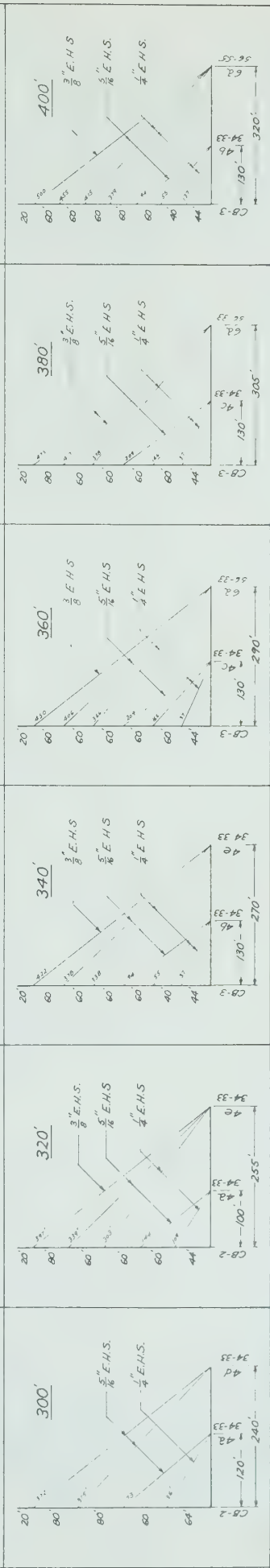


REMOVED CO7 JOINT BOLT KIT		12-24-80 JHD	
No. & Revision	Description	Date	By
Unarco-Rohn		Division of Unarco Industries Inc	
Title: C' TOWER SECTION ASSY'S.			
Scale: NONE			
Unless otherwise specified, dimensions are given in inches			
Drawn by	Date	Tolerances	Angles
M01	11-8-77	Detailed	±
Checked by	Date	Material	Finish
Approved by Engineering	Date	Weight	
Approved by Production	Date	This drawing is the property of Unarco-Rohn. It is not to be reproduced, copied or placed in whole or in part without prior written consent of Unarco-Rohn.	
Approved by Sales	Date	File Number	
2-6-78		C771038 R1	



FABRICATION REFERENCE DWG. NO. C700224R6

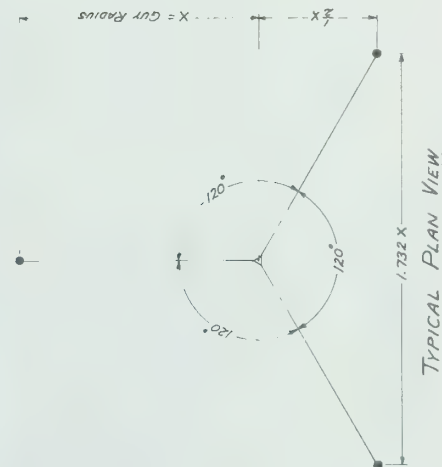
R2	ADDED FAB. DWG. NO.	12-18-78	KTL
R1	CHANGED PIER PIN & REMOVED BR'G. PLATE	11-21-73	JER
NO.	DESCRIPTION	DATE	BY
REVISIONS			
R O H N			
TAPERED BASE ASSEMBLY MODEL CC TOWER			
THIS DRAWING IS THE PROPERTY OF ROHN IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
SCALE		FINISH	
NONE		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	
DATE	BY	DATE	BY
5-20-70	SCHEPKE	5-3-70	AM
DATE	DATE	DATE	DATE
APPROVED	DATE	DATE	DATE
DWG. NO.		DWG. NO.	
B 700216		R2	



CONCRETE ANCHOR DETAILS: SEE DWG. NO. C-620643

ONE (1) THE ANTENNA AT TOP AND AT 10-FT. INTERVALS FROM TOP WITH A MAXIMUM OF SIX (6) ANTENNAS, MAXIMUM TOTAL PROJECTED AREA AT EACH ANTENNA ELEVATION IS 6 SQ. FT. DESIGN ASSUMES THAT TRANSMISSION LINES (3/8" DIA.) TO EACH ANTENNA ARE EVENLY DISTRIBUTED OVER THE THREE TOWER FACES.

DATE	NO.
7-30-81	75
AD	75
Model	
1. MODEL C6A 'RIGID-TUBE TOWER' TRIANGULAR FACE - 60" TO 400" TOWERS TYPICAL GIVING DIAGRAMS	

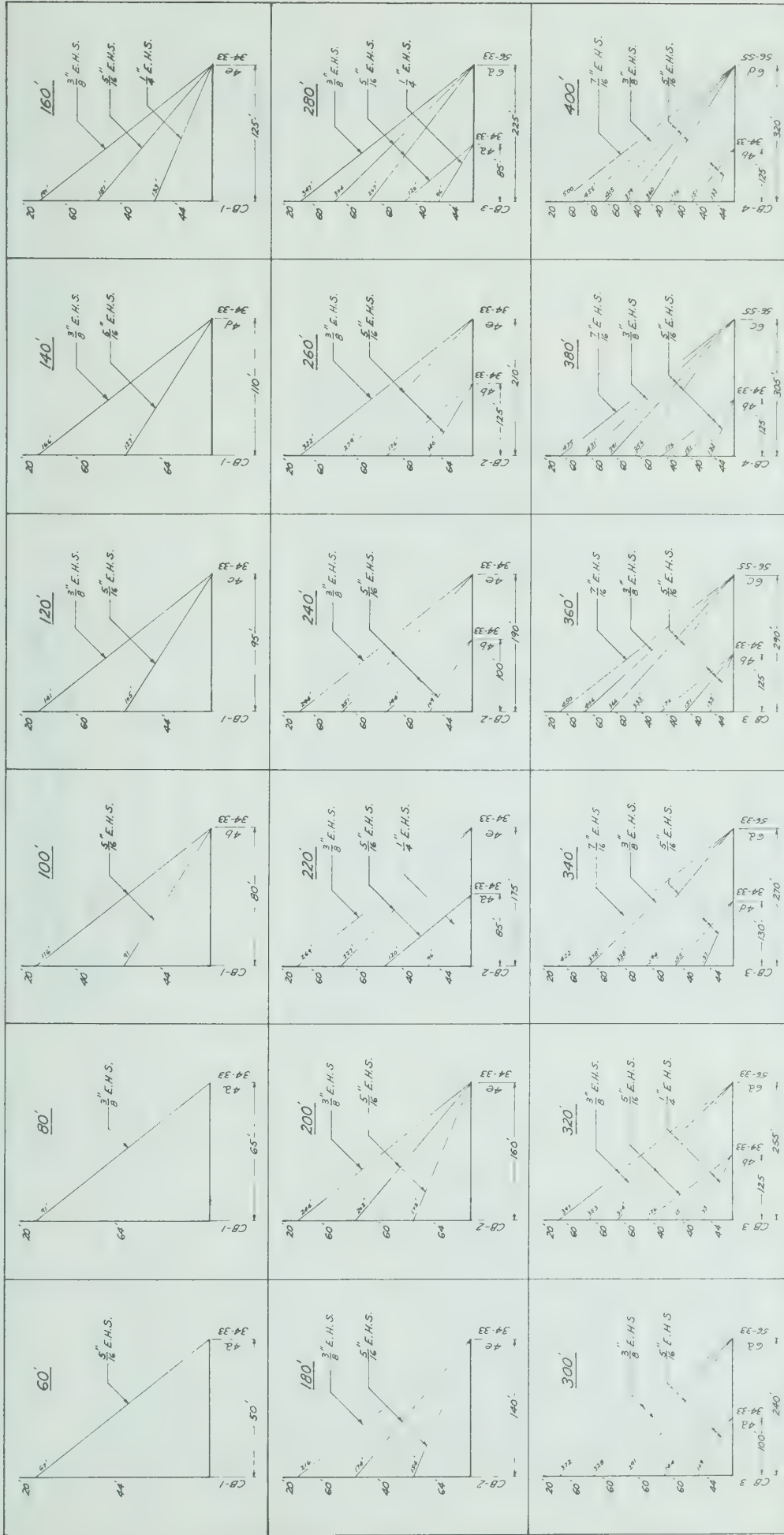


TYPICAL PLAN VIEW

C6A TOWER
GROUND MOUNT - ZONE "A" WIND LOAD
(36 Sq. Ft. of Allowable Antenna Load in the Top 50')

ITEM & PART NO.	TOWER HEIGHT																	
	60'	80'	100'	120'	140'	160'	180'	200'	220'	240'	260'	280'	300'	320'	340'	360'	380'	400'
20' tower section																		
C03	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Tapered base section																		
C05P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bearing plate																		
BP6 w/ 15/16X16PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Joint bolt kits																		
C07	2	3	3	4	5	6	6	7	8	8	9	10	11	11	11	12	13	13
Intermediate guy bracket																		
C09S	1	1	2	2	2	2	3	3	3	4	4	4	4	5	6	6	6	7
Top & beacon plate																		
C21A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mast mount kit																		
C10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Guy wire																		
1/4EHS			325'	350'			1100'	600'	600'	400'	1100'	1100'	500'	1400'	2150'	2250'	2300'	3600'
Guy wire																		
5/16EHS	250'	300'	400'	450'	1000'	1125'	725'	1450'	1550'	2200'	1925'	2050'	2750'	1550'	1850'	2000'	700'	2100'
Guy wire																		
3/8EHS														1300'	1350'	1450'	2850'	1600'
Cable clamps																		
1/4CCF			25	25			43	25	25	31	49	49	31	49	67	67	67	85
Cable clamps																		
5/16CCF	25	25	19	19	43	43	19	37	37	55	37	37	55	37	37	37	19	37
Cable clamps																		
3/8CCF														19	19	19	37	19
Thimbles																		
3/8THH	7	7	13	13	13	13	19	19	19	25	25	25	25	25	31	31	25	37
Thimbles																		
1/2THH														7	7	7	13	7
Turnbuckles																		
1/2TBE&J			3	3			6	3	3	3	6	6	3	6	9	9	9	12
Turnbuckles																		
5/8TBE&J	3	3	3	3	6	6	3	6	6	9	6	6	9	9	9	9	9	9
Anchors																		
GAC3433	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	3	3	3
Anchors																		
GAC5633																3	3	
Anchors																		
GAC5655																		3
Base grounding kits																		
BGKE1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Tower treating kits																		
T1							2	2	3	3	3	3	3	4	4	4	4	5
Anti-climb warning sign																		
ACWS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NOTE: Each size guy wire shipped in one piece.



GENERAL NOTES

GUY RADII SHOWN ARE MINIMUM RECOMMENDED.

GUY: ULTIMATE STRENGTH INITIAL TENSION TURNBUCKLE SIZE
 1/2" E.H.S. - 6,650 LBS. 1/2" E.H.S. - 700 LBS.
 3/8" E.H.S. - 11,200 LBS. 3/8" E.H.S. - 1200 LBS.
 5/16" E.H.S. - 15,400 LBS. 5/16" E.H.S. - 1600 LBS.
 3/4" E.H.S. - 20,800 LBS. 3/4" E.H.S. - 2100 LBS.

ANCHOR RODS: GAC34-33; GAC35-33; GAC36-33; GAC38-33

LENGTHS: GUY LENGTHS SHOWN ASSUME LEVEL GROUND.

CUT GUYS 1/8" LONGER THAN CHORD LENGTHS

SHOWN TO ALLOW FOR SAG AND END CONNECTIONS.

CONCRETE BASE DETAILS: SEE DWG. NO. C-610621

CONCRETE ANCHOR DETAILS: SEE DWG. NO. C-620643

WIND LOAD: E.I.A. ZONE "B"

0 - 300' : 40 PSF
 Over 300' : 48 PSF

ALLOWABLE ANTENNA LOAD: ONE (1) VHF ANTENNA AT TOP AND AT 10-FT. INTERVALS FROM TOP WITH A MAXIMUM OF 5 LBS. ANTENNAS, TRANSMISSION LINES, ETC., TO EACH ANTENNA ASSUMED TO BE EVENLY DISTRIBUTED OVER THREE TOWER FACES. MAXIMUM TOTAL PROTECTED AREA AT EACH ANTENNA ELEVATION IS 6 SQ. FT.

ROHN

MODEL C.G.B. RIGID-TUBE TOWER - 34" TRIANGULAR FACE - 60' TO 400' TOWERS
 TYPICAL GUYING DIAGRAMS

NOTES: 1. ALL DIMENSIONS ARE IN FEET AND INCHES. 2. ALL DIMENSIONS ARE TO CENTER OF MEMBER UNLESS OTHERWISE SPECIFIED. 3. ALL DIMENSIONS ARE TO BE MAINTAINED AT ALL TIMES.

AWD 7-20-81
 AUG 2-17-81
 1/3

D810055



TYPICAL PLAN VIEW

C6B TOWER

GROUND MOUNT - ZONE "B" WIND LOAD

(36 Sq. Ft. of Allowable Antenna Load in the Top 50')

ITEM & PART NO.	TOWER HEIGHT																			
	60'	80'	100'	120'	140'	160'	180'	200'	220'	240'	260'	280'	300'	320'	340'	360'	380'	400'		
20' tower section C03	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Tapered base section C05P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Bearing plate BP6 w/ 15/16X16PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Joint bolt kits C07	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	11	12	12		
Intermediate guy bracket C09S	1	1	2	2	2	3	3	3	4	4	4	5	5	6	6	7	7	8		
Top & beacon plate C21A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mast mount kit C10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Guy Wire	1/4EHS					500'			500'			500'		1000'						
	5/16EHS	250'		700'	375'	450'	500'	1100'	1250'	1100'	1700'	2000'	2200'	1800'	1600'	2750'	3800'	4000'	5250'	
	3/8EHS		350'		450'	550'	625'	700'	800'	900'	950'	1050'	1100'	2250'	2400'	1200'	1300'	1400'	1500'	
	7/16EHS															1350'	1450'	1525'	1600'	
Clamps	1/4CCF					25			31			31		49						
	5/16CCF	25		43	25	25	19	43	43	37	67	67	55	67	37	85	103	103	121	
	3/8CCF		25		19	19	19	19	19	19	19	19	19	37	37	19	19	19	19	
Cable	7/16CCF															25	25	25	25	
	Thimbles																			
Thimbles 3/8THH	7		13	7	7	13	13	13	19	19	19	25	19	25	25	31	31	37		
Thimbles 1/2THH		7		7	7	7	7	7	7	7	7	7	13	13	13	13	13	13		
Turnbuckles 1/2TB&J						3			3			3		6						
Turnbuckles 5/8TB&J	3	3	6	6	6	6	9	9	9	12	12	12	15	12	15	18	18	21		
Turnbuckles 3/4TB&J															3	3	3	3		
Anchors	GAC3433	3	3	3	3	3	3	3	6	6	6	3	3	3	3					
	GAC5633											3	3	3	3					
GAC5655																				
Base grounding kits BGKE1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Tower treating kits T1						2	2	3	3	3	3	3	3	4	4	4	4	5		
Anti-climb warning sign ACWS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

NOTE: Each size guy wire shipped in one piece.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

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ROHN 7500SR



- 7'6" FACE
- HEIGHTS TO 2,000 FEET
- SOLID STEEL CONSTRUCTION
- HOT DIP GALVANIZED
- IDEAL FOR BROADCAST USE

GENERAL INFORMATION

The Rohn 7500SR tower is a 7'6" face guyed tower suitable for height requirements up to 2,000 feet. Ideal for broadcast use, with or without microwave, the 7500SR tower is constructed with solid leg and angle bracing members. The 7'6" face allows comfortable inside climbing with additional room for waveguides.

Torque assemblies are available when twist and sway requirements are critical. Reduced face width selections are also available for the upper portions of the 7500SR tower to minimize antenna interference effect.

A standard tapered base provided with the 7500SR tower means lower foundation costs. The tapered base also helps insure foundation settlements will not transfer stresses to the tower.

All 7500SR member connections are bolted versus shop welded. The knocked down construction allows for convenient shipping and future upgrade of bracing.

ENGINEERING/SALES

Rohn's professional engineering and drafting department works closely with a knowledgeable sales staff to make certain each tower meets all requirements for a specific installation.

A state-of-the-art Computer Aided Design and Drafting System allows for tight manufacturing tolerances resulting in a straight and rigid tower, easily erected, while eliminating member eccentricities for the optimum utilization of materials.

FINISH

All Rohn towers are Hot Dip Galvanized after fabrication at Rohn's own in-house galvanizing facility to provide the ultimate in corrosion protection. A minimum of 2 ounces of zinc per square foot of surface is actually bonded to the steel to provide protection far superior to any painted coating.



QUALITY CONTROL

Quality Control is one reason Rohn towers have achieved a reputation for excellence and durability.

Strict Quality Control checks are built into each step of the design and manufacturing process. Rohn Quality Control procedures on weld testing use:

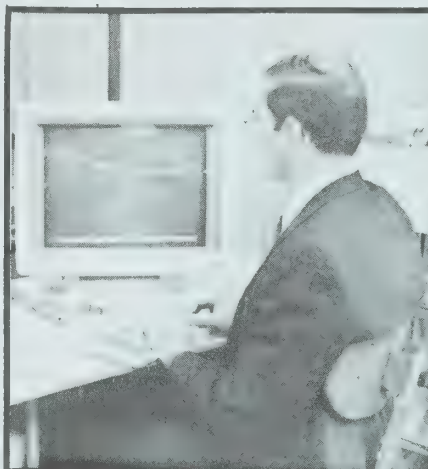
- X-Ray
- Dye Penetrant
- Ultrasonic

ABOUT ROHN

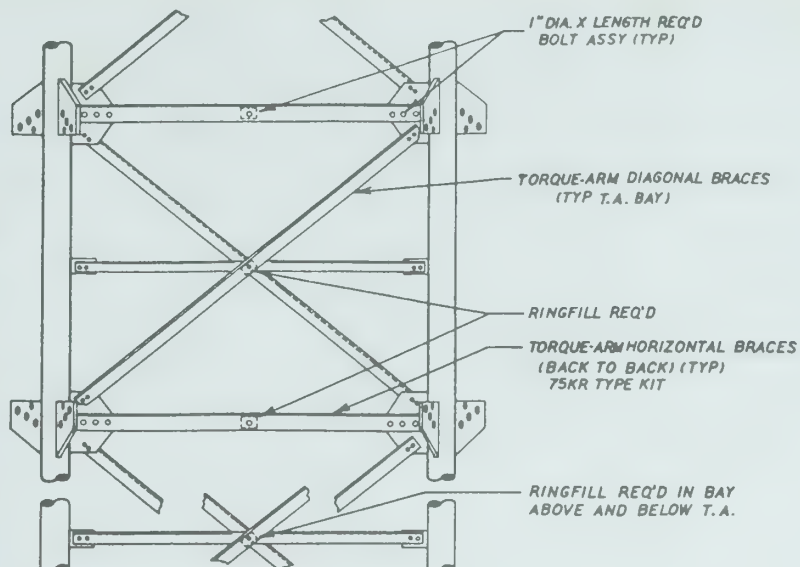
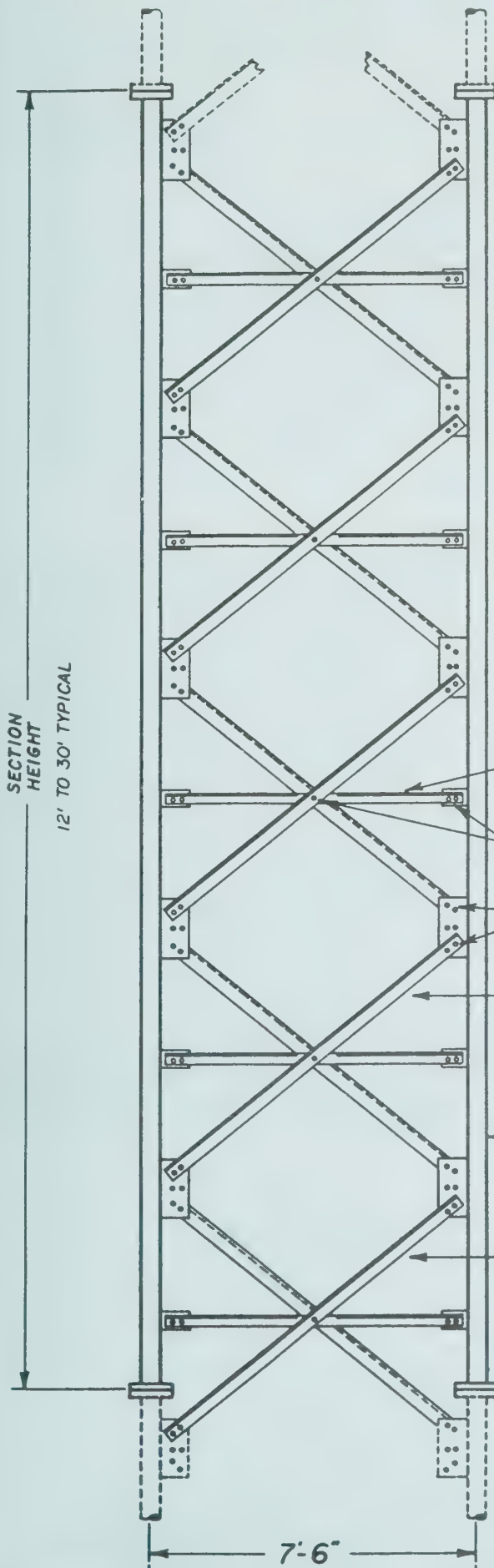
Since 1948 Rohn has been a world leader in quality communication support structures.

Rohn's Hot Dip Galvanized towers can be found worldwide and range from small home television antenna towers to large broadcast and microwave towers.

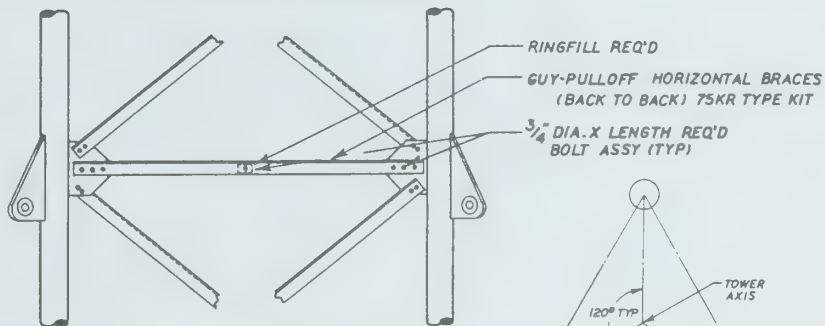
To complete the installation, fiberglass and concrete equipment shelters are available from Rohn. In addition to the construction of shelters, Rohn's Birmingham, Alabama, facility will also install radio equipment and other hardware to complete the shelter installation.



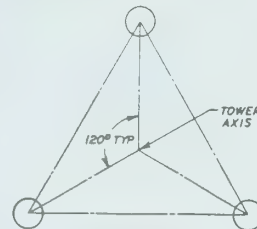
ALL MATERIAL PREHEATED PER AWS D1.1



TYPICAL TORQUE-ARM ELEV.



TYPICAL GUY-PULLOFF ELEV.



PLAN VIEW
(N.T.S.)

7500SR KIT TYPE DESCRIPTIONS

- 75KL - LEGS AND FLANGE BOLTS
- 75KD - DIAGONAL BRACES AND BOLTS
[ALL DIAGONAL BAYS]
[EXCEPT BOTTOM]
- 75KDB - DIAGONAL BRACES AND BOLTS
[BOTTOM BAY ONLY]
- 75KR - HORIZONTAL BRACES AND BOLTS
[INCLUDES ALL HORIZONTAL]
[BRACING FOR SECTION]

75KR TYPE KIT
(ALL HORIZONTALS)

5/8" DIA. X LENGTH REQ'D
BOLT ASSY (TYP)

5/8" OR 3/4" DIA. X LENGTH REQ'D
BOLT ASSY (TYP)

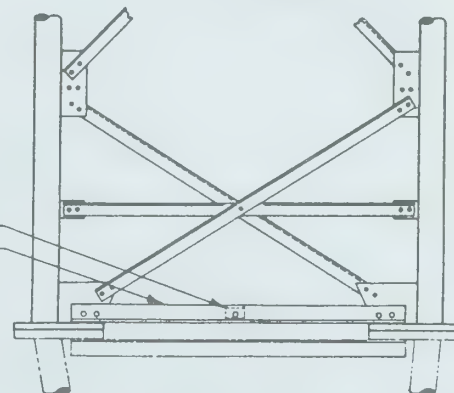
75KD TYPE KIT

75KL TYPE KIT

RINGFILL REQ'D
BASE HORIZONTAL
(BACK TO BACK)
75KR TYPE KIT

75KDB TYPE KIT

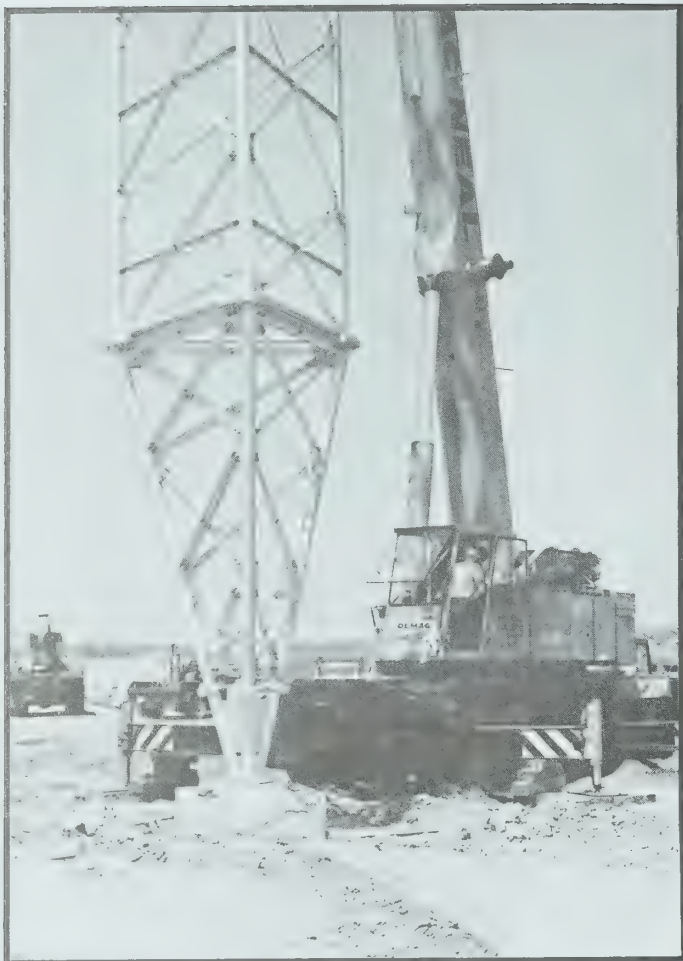
ALL FLANGE PLATES MILLED
FOR 100% LEG CONTACT



BOTTOM BAY ABOVE
TAPERED BASE

GENERAL NOTES

1. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
2. SEE TOWER ASSY FOR INDIVIDUAL SECTION KIT P/N'S AND QTY'S.
3. SECTIONS SHOULD BE ASSEMBLED ON ASSY FIXTURES P/N 75AF, LEVELLED AND TIGHTENED BEFORE ERECTION TO INSURE STRAIGHTNESS.
4. FOR ACTUAL SECTION HEIGHT, SEE TOWER ASSY BILL OF MATERIAL.
5. SEE INDIVIDUAL KIT BILLS OF MATERIAL FOR REQ'D. BOLT LENGTHS AND LOCATIONS.



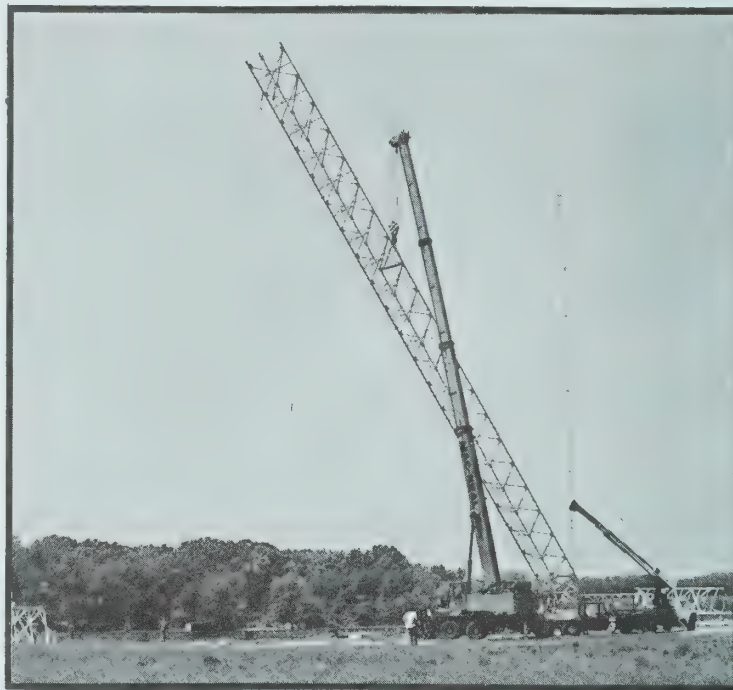
CONSTRUCTION

Rohn's Construction Group provides expert tower erection service anywhere in the world.

From foundations through tower erection and installation of antennas and waveguides, Rohn's Construction Group will guide the project carefully.

Rohn's Construction Group works closely with Rohn's engineering and sales departments to coordinate all aspects of the installation. This close communication can help eliminate many problems which might otherwise slow or complicate an installation.

Rohn's on-site experienced field supervisors provide a first hand, knowledgeable view of the installation for the Construction Group's main office at the Peoria, Illinois, facility.



ROHN® 6718 W. Plank Road
Peoria, Illinois 61656
Phone: 309-697-4400
TWX: 910-652-0646
FAX: 309-697-5612

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

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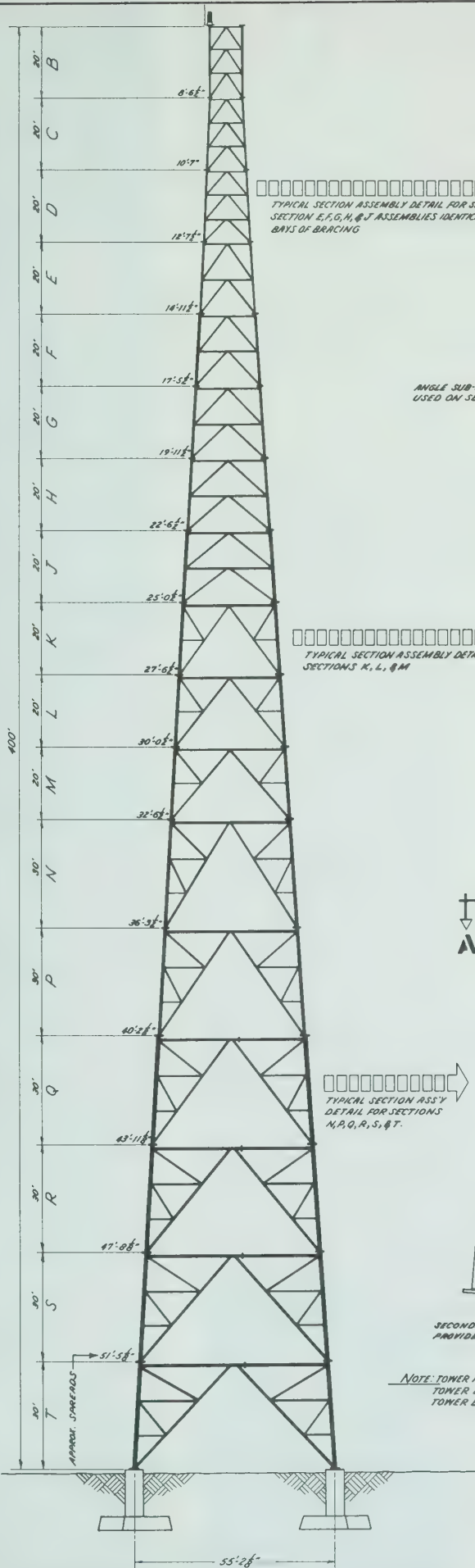
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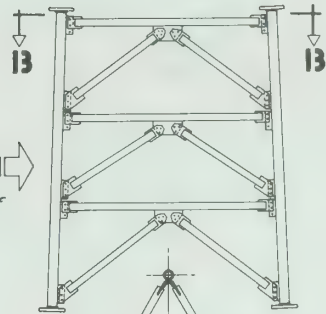
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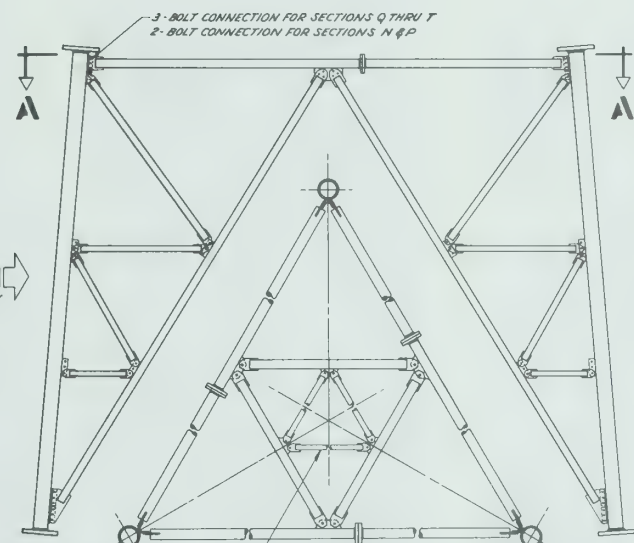
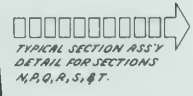
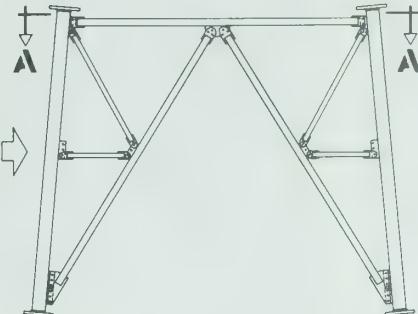
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ANGLE SUB-HORIZONTAL BRACING
USED ON SECTIONS B THRU J ONLY



13-13



3-BOLT CONNECTION FOR SECTIONS Q THRU T
2-BOLT CONNECTION FOR SECTIONS N & P

SECONDARY HORIZONTAL SUB-BRACING
PROVIDED ON SECTIONS Q, R, S, & T ONLY

BRACING SPLICE CONNECTION
USED ON SECTIONS Q THRU T ONLY

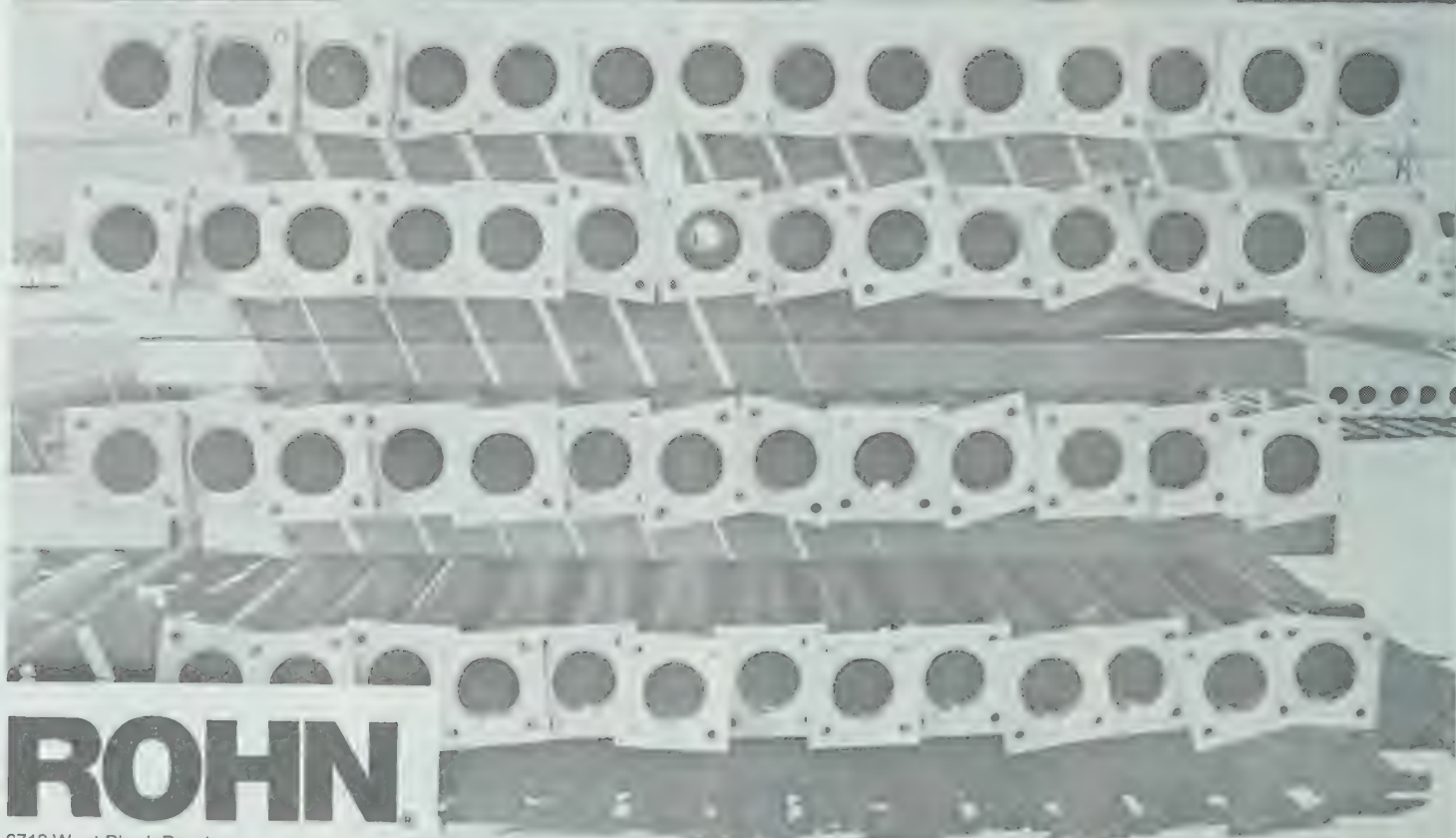
NOTE: TOWER MEMBERS COMPOSED OF THE FOLLOWING SHAPES:
TOWER LEGS — ALL PIPE MEMBERS
TOWER BRACING — PIPE, TUBE, & ANGLE MEMBERS

RI ADDED SECONDARY SUB BRACING Q THRU T		3 10 T	© M
NO	DESCRIPTION	DATE	BY
REVISION ONE			
ROHN. MANUFACTURING			
TITLE TYPICAL TOWER ASSEMBLY FOR 400' MODEL SSMW TOWER			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
DATE	BY	CHKD	APP'D
0.4	7-15-75		
7.5	7-17-75		
10.1	7-17-75		
12.1	7-17-75		
DWG. NO.		D-750003 R	

ROHN

Continuing Strength and Quality
For Every Tower Need





ROHN

6718 West Plank Road
P O Box 2000 • Peoria, Illinois 61656

Form no. 1818

ROHN.
IN-HOUSE
HOT DIP GALVANIZED
"Quality Control"



**Just one of the many assets contributing to the
continuing strength and quality at ROHN.**

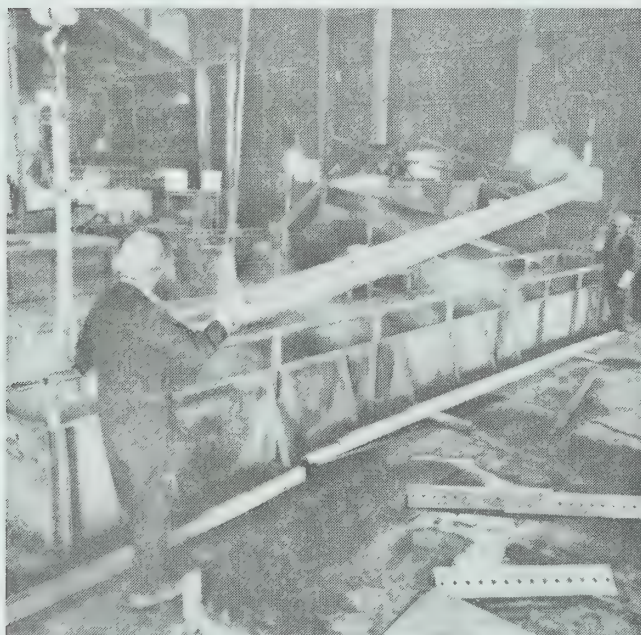
Rohn Will Give You Quality With Galvanized Protection



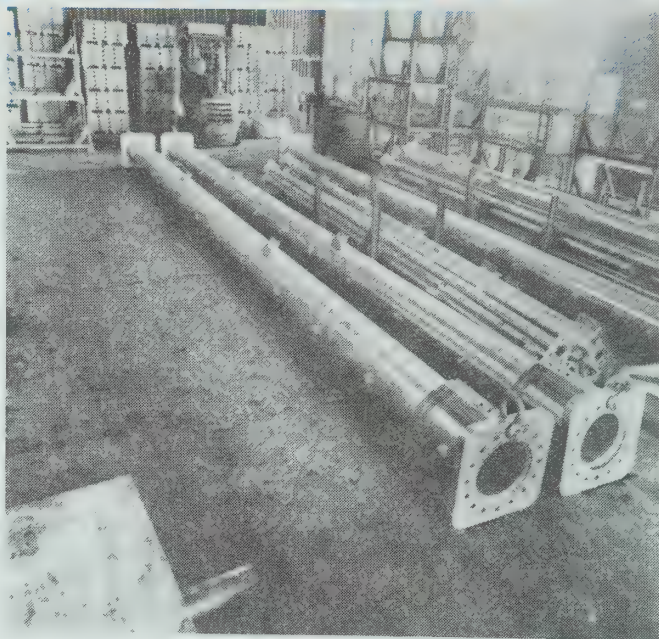
Additional 25' x 5' Kettle for Smaller Hardware



One of the Largest and Most Efficient Hot Dip Galvanizing Facilities in the USA.



Chemical Treatment to Protect Galvanized Finish



Quality Control Check After Hot Dip Process

Rohn maintains stringent standards on Quality in our designing, engineering and steel fabricating. The galvanized coating used makes us superior to any other type of coating. No chipping, scratching or peeling that lends itself to rust and deterioration.

Hot-dip zinc galvanizing means that ROHN products are absolutely corrosion-resistant. A minimum molten zinc coating of 2 ounces for every square foot of surface fuses permanently to the metal, becoming an actual part of the steel. The tubular steel used in ROHN Towers is coated both inside and outside to give absolute protection from condensation and moisture.

With ROHN Products, you receive the very finest available—anywhere. All Hot-Dip Galvanizing is done in the ROHN In-House Galvanizing Plant according to ROHN Rigid Controls for Highest Quality.

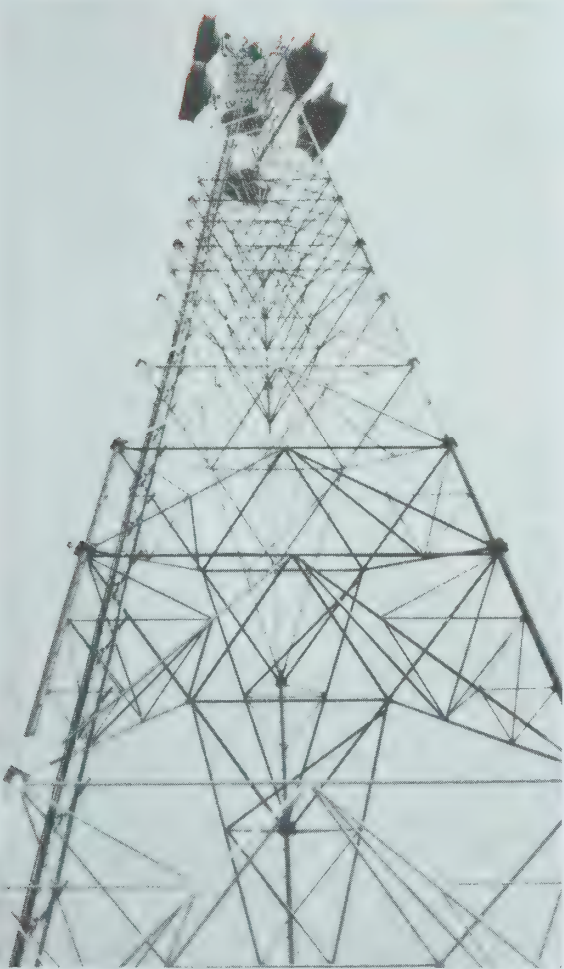
ROHN®

6718 West Plank Road
P.O. Box 2000 • Peoria, Illinois 61656
Phone: 309-697-4400
TWX 910-652-0646
U.S.A.

Form No. 82 1808

ROHN[®] SSV

SELF-SUPPORTING COMMUNICATION TOWERS



Here is a superbly designed, unique tower series that fills a wide range of needs because of their extraordinary versatility! Widely used for all types of communication, broadcasting, microwave and industrial needs, the ROHN SSV series has many outstanding features to make it worthy of consideration for your requirements.

Outstanding Features of the **ROHN[®] "SSV" Series Towers . . .**

- Designed for a minimum wind load of 30 psf. Towers requiring higher wind or ice loads are no problem due to the tower's amazing versatility.
- Standard designs available in heights to 500 feet depending on loading. Special towers available depending on specific requirements.
- The SSV series make use of primarily knock-down construction for on-site assembly, which reduces shipping costs.
- Towers for minimal loadings are available in welded construction in heights up to 60 feet, shipped in 20 foot sections.
- All components and hardware are Hot Dip Galvanized **after** fabrication with a zinc coating per E.I.A. Standards.
- All ROHN SSV series towers are engineered, designed and fabricated to meet or exceed latest E.I.A. specifications.

ROHN[®]

6718 West Plank Road
P.O. Box 2000 • Peoria, Illinois 61656
Phone: 309-697-4400
TWX 910-652-0646
U.S.A.

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ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

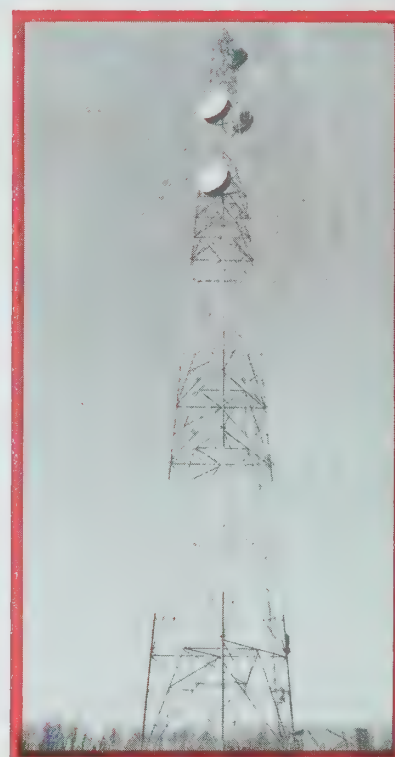
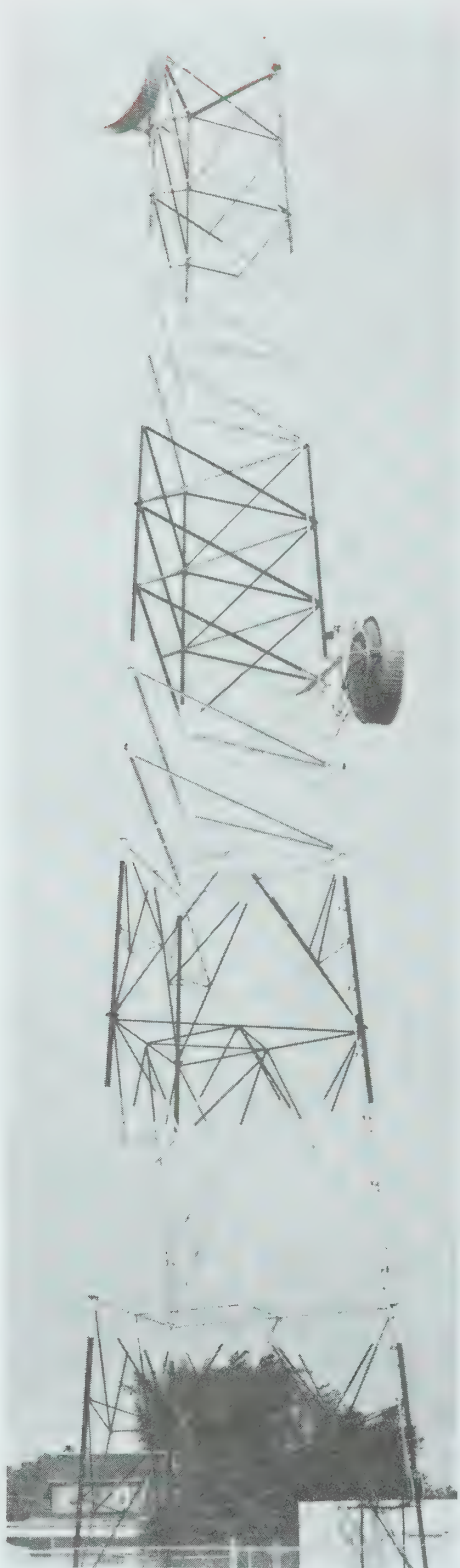
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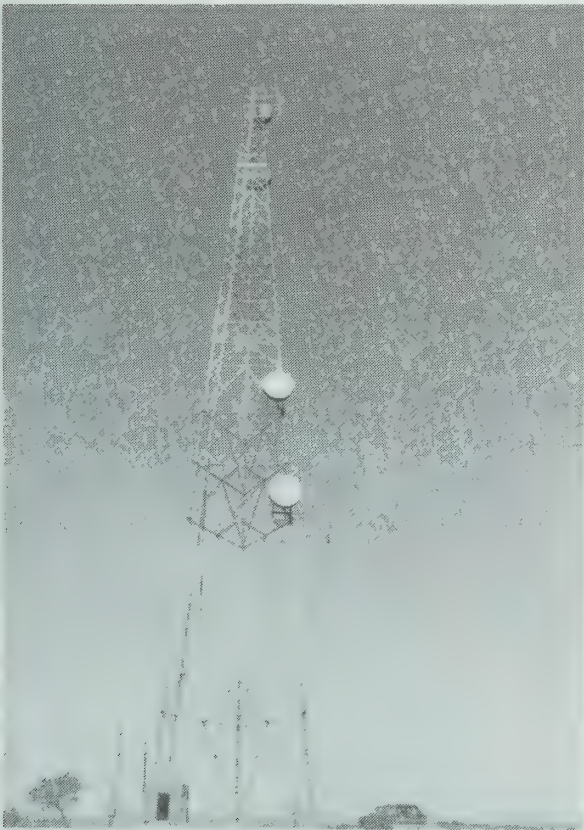
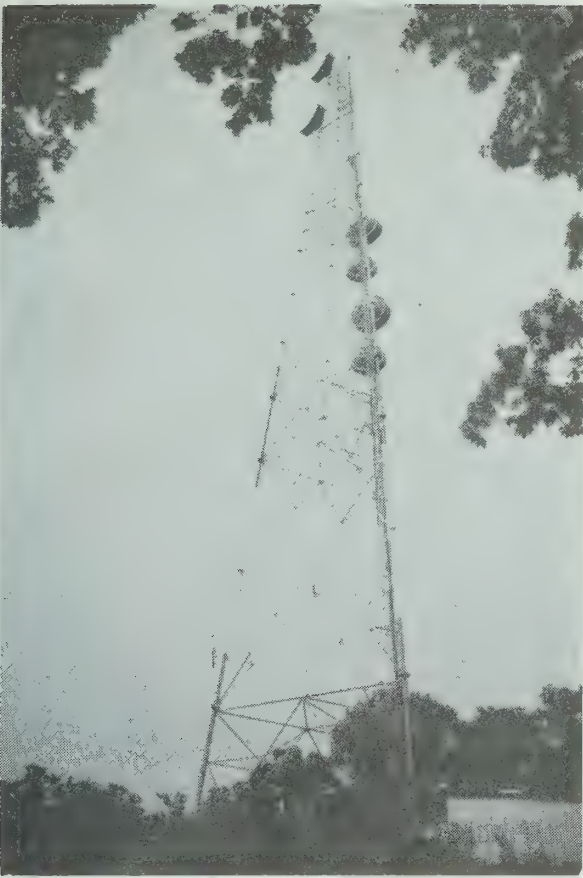
All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

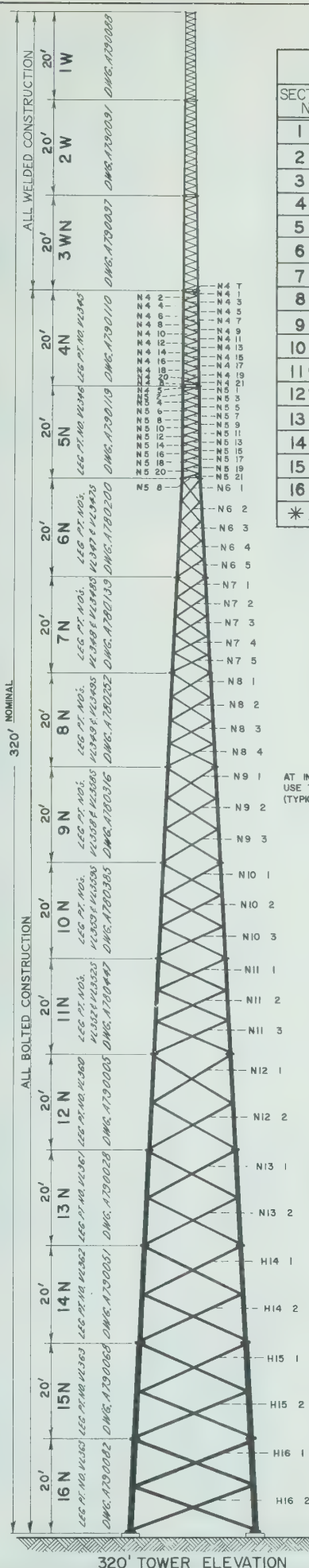
EXAMPLES OF **ROHN** SSV TOWER INSTALLATIONS



MICROWAVE / BROADCASTING / COMMUNICATIONS



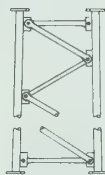




TOWER SCHEDULE

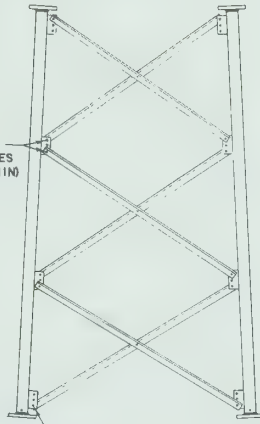
SECTION NO.	SPREAD DIMENSION		TOWER LEGS 50 KSI YIELD STR.	TOWER BRACES MIN. 33 KSI YIELD STR.	FLANGE PLATES		FLANGE BOLTS	BRACE BOLTS
	UPPER	LOWER			TOP	BOTTOM		
1 W	1'-2"	1'-2"	9/16" Ø SOLID	3/8" Ø SOLID	3 X 3 X 3/8 2 1/2" B.C.	3 X 3 X 3/8 2 1/2" B.C.	12-3/8 X 1/2	NONE
2 W	1'-2"	1'-6"	3/4" Ø SOLID	3/8" Ø SOLID	3 X 3 X 3/8 2 1/2" B.C.	3 X 3 X 3/8 2 1/2" B.C.	12-3/8 X 1/2	NONE
3 WN	1'-6"	1'-10"	15/16" Ø SOLID	7/8" Ø SOLID	3 X 3 X 3/8 2 1/2" B.C.	4 X 4 X 1/2 3 1/2" B.C.	12-1/2 X 2"	NONE
4 N	1'-10"	2'-2"	1 1/4" Ø SOLID	5/8" Ø SOLID	4 X 4 X 1/2 3 1/2" B.C.	4 1/2 X 4 1/2 X 5/8 4 1/4" B.C.	12-5/8 X 2 1/4	72-3/8 X 1 1/2
5 N	2'-2"	2'-6"	1 7/8" Ø SOLID	5/8" Ø SOLID	4 1/2 X 4 1/2 X 5/8 4 1/4" B.C.	4 1/2 X 4 1/2 X 5/8 4 1/4" B.C.	12-5/8 X 2 1/4	72-3/8 X 1 1/2
6 N	2'-6"	4'-6 1/4"	2" Ø PIPE	1 1/2 X 1 1/2 X 1/8	4 1/2 X 4 1/2 X 1/2 4 1/4" B.C.	5 X 5 X 3/4 4 5/16" B.C.	12-5/8 X 2 1/4	75-1/2 X 1 1/4
7 N	4'-6 1/4"	6'-6 3/4"	2" Ø PIPE	1 1/2 X 1 1/2 X 1/8	5 X 5 X 3/4 4 5/16" B.C.	5 X 5 X 3/4 4 5/16" B.C.	12-5/8 X 2 1/4	75-1/2 X 1 1/4
8 N	6'-6 3/4"	8'-6 3/4"	2 1/2" Ø PIPE	1 1/2 X 1 1/2 X 1/8	5 X 5 X 3/4 4 5/16" B.C.	5 X 5 X 3/4 4 5/16" B.C.	12-5/8 X 2 1/4	60-1/2 X 1 1/4
9 N	8'-6 3/4"	10'-6 3/4"	2 1/2" Ø PIPE	1 3/4 X 1 3/4 X 1/8	5 X 5 X 3/4 4 5/16" B.C.	5 X 5 X 3/4 4 5/16" B.C.	12-5/8 X 2 1/4	45-1/2 X 1 1/4
10 N	10'-6 3/4"	12'-7 1/4"	2 1/2" Ø PIPE	2 X 2 X 1 1/8	5 X 5 X 3/4 4 5/16" B.C.	6 X 6 X 3/4 5 9/32" B.C.	12-7/8 X 2 3/4	45-1/2 X 1 1/4
11 N	12'-7 1/4"	14'-7 7/8"	3" Ø PIPE	2 1/2 X 2 1/2 X 3/16	6 X 6 X 3/4 5 9/32" B.C.	7 X 7 X 1 7 1/16" B.C.	12-7/8 X 3 1/2	45-1/2 X 1 1/4
12 N	14'-7 7/8"	16'-8 3/8"	3 1/2" Ø PIPE	3 X 3 X 3/16	7 X 7 X 1 7 1/16" B.C.	7 X 7 X 1 7 1/16" B.C.	12-7/8 X 3 1/2	30-5/8 X 1 1/2
13 N	16'-8 3/8"	18'-8 3/8"	4" Ø PIPE	3 X 3 X 3/16	7 X 7 X 1 7 1/16" B.C.	7 X 7 X 1 7 1/16" B.C.	12-7/8 X 3 1/2	30-5/8 X 1 1/2
14 N	18'-8 3/8"	20'-9 3/8"	4" Ø PIPE	3 1/2 X 3 1/2 X 1/4	7 X 7 X 1 7 1/16" B.C.	9 1/2 X 9 1/2 X 1/4 9 1/2" B.C.	12-1 X 4 1/4	30-5/8 X 1 3/4
15 N	20'-9 3/8"	22'-9 3/8"	5" Ø PIPE	4 X 4 X 1/4	9 1/2 X 9 1/2 X 1/4 9 1/2" B.C.	9 1/2 X 9 1/2 X 1/4 9 1/2" B.C.	12-1 X 4 1/4	30-5/8 X 1 3/4
16 N	22'-9 3/8"	24'-9 3/8"	5" Ø PIPE	4 X 4 X 1/4	9 1/2 X 9 1/2 X 1/4 9 1/2" B.C.	9 1/2 X 9 1/2 X 1/4 9 1/2" B.C.	12-1 X 4 1/4	30-5/8 X 1 3/4

* ASTERISK INDICATES THAT THE BOTTOM FLANGE PL. OF THAT SECTION IS OFFSET.



BRACING DETAILS
FOR SECTIONS 4N & 5N

AT INTERMEDIATE CLIPS
USE TOP & BOTTOM HOLES
(TYPICAL FOR SEC'S 6N-11N)

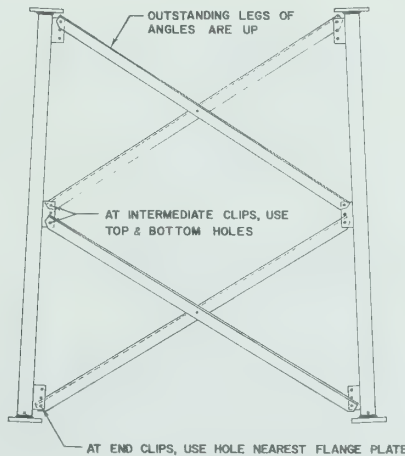


BRACING DETAIL FOR SECTIONS 6N-11N

WEIGHTS			
SEC. NO.	LEGS	BRACES	TOTAL
1 W			116
2 W			160
3 WN			230
4 N	260	175	435
5 N	345	195	540
6 N	290	190	480
7 N	300	245	545
8 N	426	274	700
9 N	420	300	720
10 N	430	400	830
11 N	570	840	1,410
12 N	690	825	1,515
13 N	790	910	1,700
14 N	845	1,625	2,470
15 N	1,155	2,000	3,155
16 N	1,155	2,150	3,305

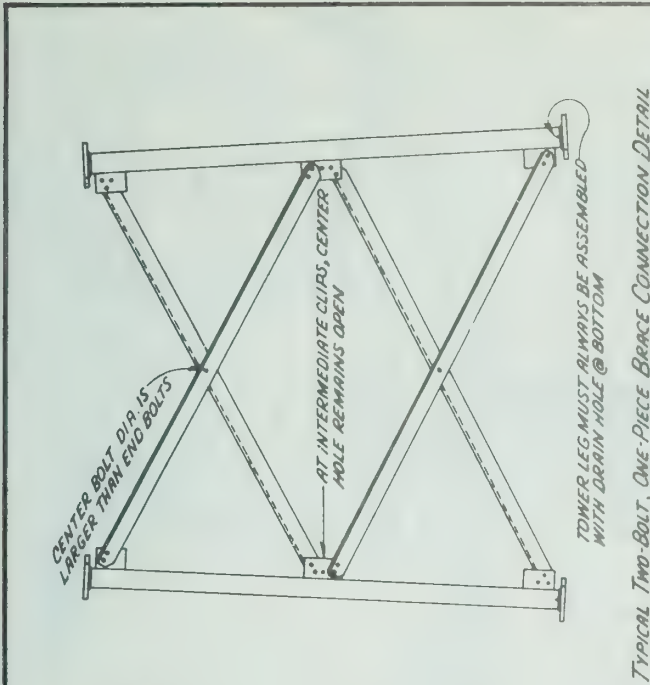
GENERAL NOTES:

- LEG PART NO. IS STAMPED AT THE BOTTOM OF EACH LEG OF EACH BOLTED SECTION. SECTION NO. IS STAMPED AT BOTTOM OF ONE LEG OF EACH WELDED SECTION.
- ALL PART NO'S METAL STAMPED BEFORE GALVANIZING.
- PAL NUTS PROVIDED FOR ALL TOWER BOLTS.
- STEP BOLTS PROVIDED ON ONE LEG FOR SECTIONS 6N THRU 11N, AND STEP BOLTS ON 3 LEGS FOR SECTIONS 12N THRU 16N.
- ALL TOWER MEMBERS ARE HOT-DIPPED GALVANIZED AFTER FABRICATION.

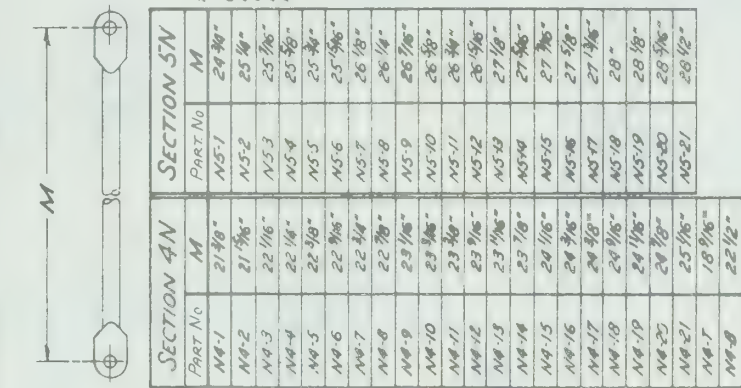


BRACING DETAIL FOR SECTIONS 12N-16N

R6	REV. 2-PIECE BRACING TO 1-PIECE.	8-27-85 JMD
R7	REVISED 14N BRACING & BOLT QTY'S	2-5-85 BLJ
R3	REVISE GEN. NOTE NO. 1. ADD LEG PL. NOS.	6/2/79 GLS
R4	CHANGED 14N, 15N, & 16N BRACE MAT'L & WT'S	12-10-79 JER
R3	FLANGE BOLTS IN SEC. 6N WERE 2 1/2" LG.	2/3/72 GLS
R2	SECT. 3WN WAS 3W	7/16/71 GWA
R1	SECTIONS 4W & 5W REPL BY 4N & 5N	5/5/71 GWA
NO.	DESCRIPTION	DATE
UNARCO-ROHN		
MODEL SSV TOWER STANDARD SERIES		
HA & DB	8-1-69	
10/14/69	10/14/69	
E 690800		



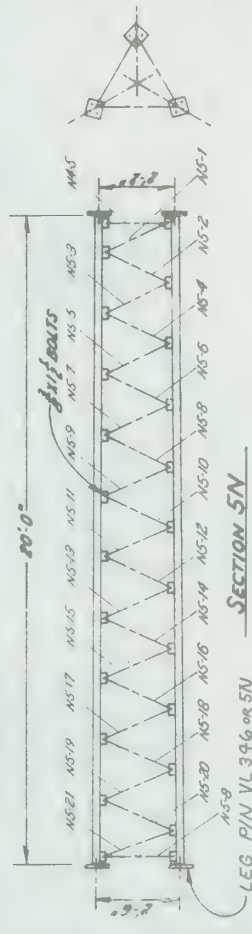
TYPICAL TWO-BOLT, ONE-PIECE BRACE CONNECTION DETAIL



SECTION 5N

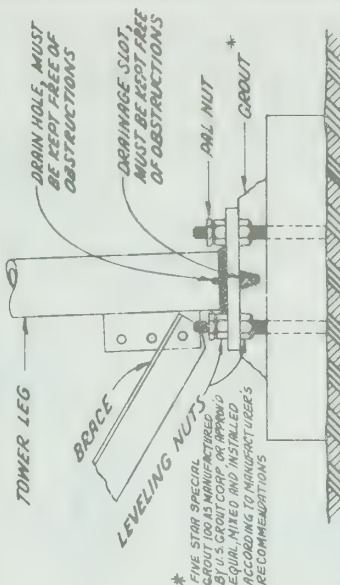
NOTE: BRACING DETAILS FOR ALL 4N & 5N STRAIGHT SECS. IS SAME AS SHOWN AT RIGHT. REFER TO ERECTION DWG. FOR BRACE PIN'S

NOTE: SECTIONS SHOULD BE ASSEMBLED ON EVEN GROUND & LEVELED TO INSURE STRAIGHTNESS



83-2
-LEG P/N VL396 or 5N

IMPORTANT: LEG PART NO. IS STAMPED AT BOTTOM OF BASE FLANGE PLATE OF EACH SECTION LEG.



GROUTING & DRAINAGE DETAILS

NO	DESCRIPTION	DATE	BY
R2	REVISED MK VOS TO FINIS (ADDED LEG PINS)	5/19/77	PCL
R2	ADDED ASSEMBLY NOTE	7/1/78	DA
P1	REVISED GENERAL LOCATION OF NO: 55 & MK M3	1/6/79	DA

ROHN MANUFACTURING

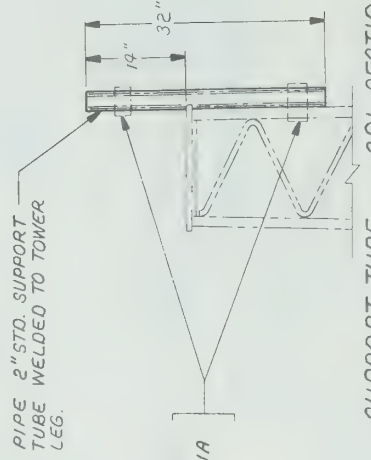
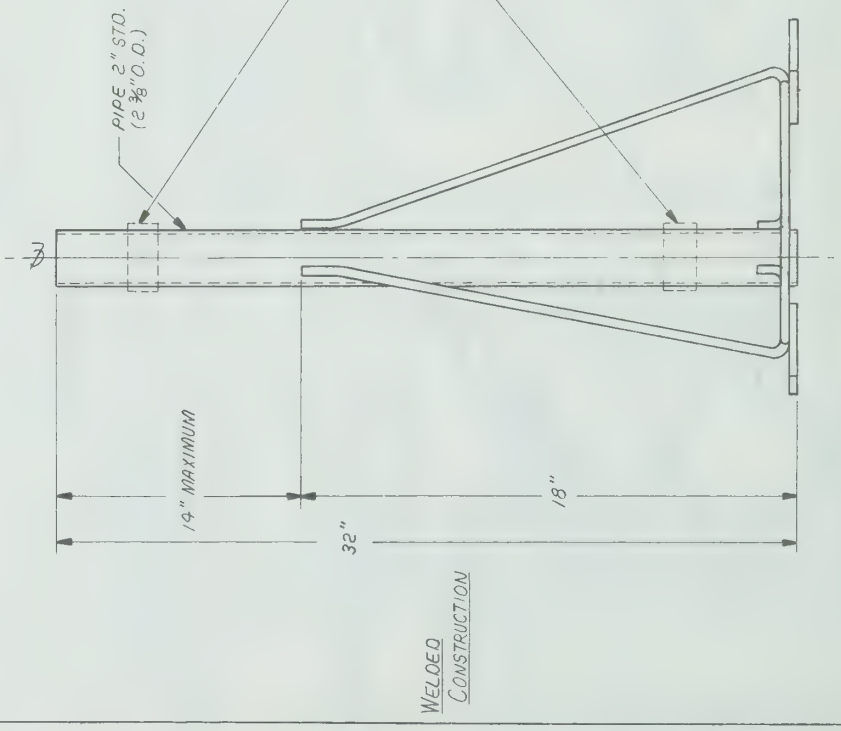
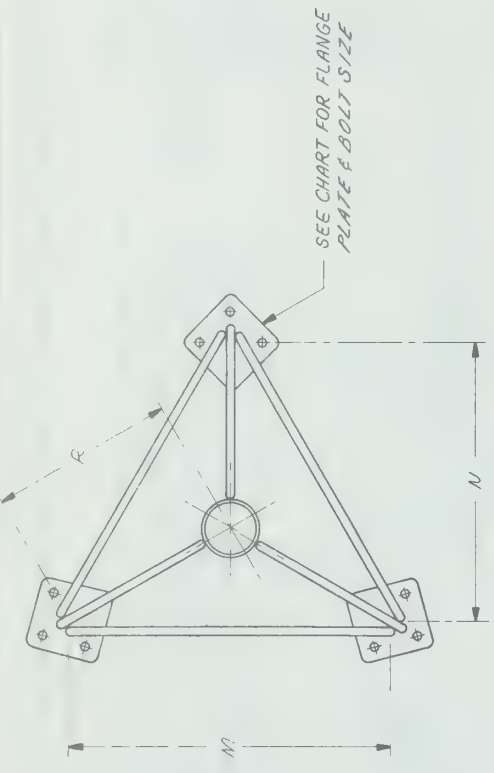
TITLE BRACING, GROUTING, & DRAINAGE DATA
FOR MODEL S.S.V TOWERS

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REPRODUCED COPIED OR TRACED IN WHOLE OR IN PART
WITHOUT OUR WRITTEN CONSENT

[illegible]

TAPERED TOP ASSY. BILL OF MATERIAL & DETAIL											
ASSY. NO.	TOWER SEC. NO.	TAPERED TOP QUAN.	PL. NO.	M	N	R	FLANGE 12 SIZE	FLANGE BOLTS			
								QUAN.	PL. NO.		
1TT	14" DIA. 1/2" W. 3/4" H.	1	1TTA	1'-2"	1'-0 1/2"	1'-3 1/4"	3 x 3 x 3/8	9	1TTA	3/8 x 1 1/2	210006CA
3TT	24" DIA. 1/2" W. 3/4" H.	1	3TTA	1'-6"	1'-3 3/4"	1'-10 1/4"	3 x 3 x 3/8	9	3TTA	3/8 x 1 1/2	210006CA
4TT	34" DIA. 1/2" W. 3/4" H.	1	4TTA	1'-10"	1'-7 1/4"	1'-0 1/4"	4 x 4 x 1/2	9	4TTA	3/8 x 2	210020CA
5TT	44" DIA. 1/2" W. 3/4" H.	1	5TTA	2'-2"	1'-10 1/2"	1'-3"	4 1/2 x 4 1/2 x 5/8	9	5TTA	3/8 x 2 1/2	210032CA
6TT	54" DIA. 1/2" W. 3/4" H.	1	6TTA	2'-6"	2'-2"	1'-5 3/4"	4 1/2 x 4 1/2 x 5/8	9	6TTA	3/8 x 2 1/2	210032CA

NOTE:
FOR FABRICATION DETAIL SEE
DWG. NO. C790093 (FOR SHOP USE ONLY).



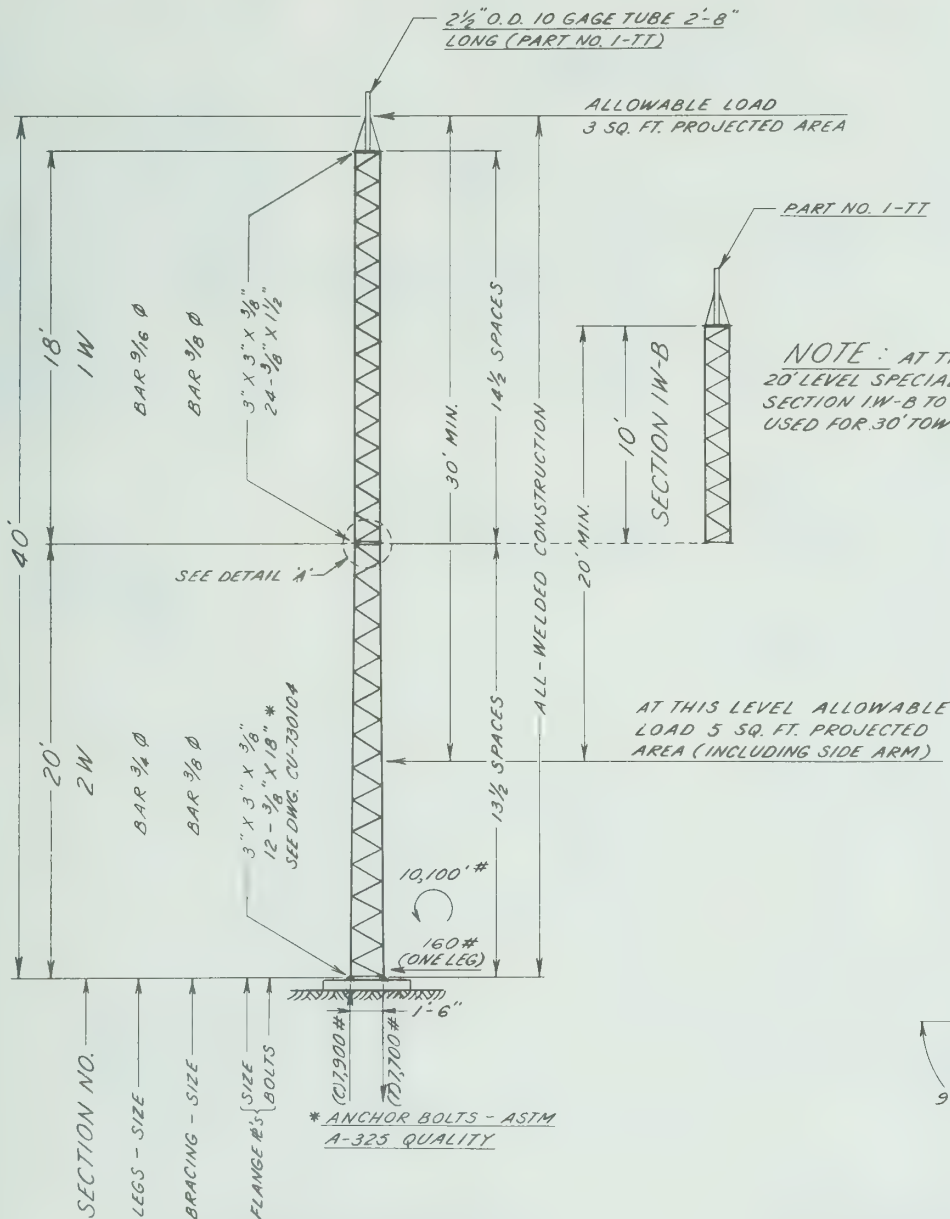
SUPPORT TUBE FOR APL SECTIONS-DETAIL

R6 REDRAWN		13-77 MDI	
No.	A	Revision	Description
<div> <div> <div>Unarco-Rohn</div> <div>Division of Unarco Industries, Inc.</div> </div> <div> <div>13-77 MDI</div> <div>1-4-77</div> </div> </div>			
<div> <div> <div>Title</div> <div>SUPPORT TUBE DETAILS FOR</div> <div>S. S. V. TOWERS</div> </div> <div> <div>Scale</div> <div>NONE</div> </div> </div>			
<div> <div> <div>Drawn by</div> <div>MDI</div> </div> <div> <div>Date</div> <div>1-3-77</div> </div> </div>			
<div> <div> <div>Checked by</div> <div>MDI</div> </div> <div> <div>Date</div> <div>1-4-77</div> </div> </div>			
<div> <div> <div>Approved by Engineering</div> <div>MDI</div> </div> <div> <div>Date</div> <div>1-5-77</div> </div> </div>			
<div> <div> <div>Approved by Production</div> <div>MDI</div> </div> <div> <div>Date</div> <div>1-5-77</div> </div> </div>			
<div> <div> <div>Approved by Sales</div> <div>MDI</div> </div> <div> <div>Date</div> <div>1-4-77</div> </div> </div>			
<div> <div> <div>Drawing Number</div> <div>SK 670407R8</div> </div> <div> <div>File Number</div> <div>13-77 MDI</div> </div> </div>			

DESIGN BASED ON THRUST OF
500# @ CLAMPING POSITION

TAPERED TOP DETAILS

R8	REVISED BILL OF MATERIAL	13-77 MDI
R7	UPDATE DWG.	13-77 MDI

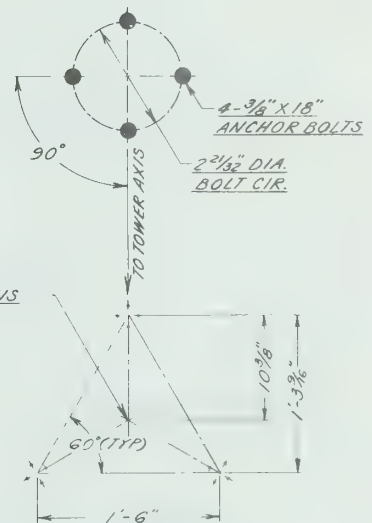


TOWER ELEVATION

GENERAL NOTES

1. SECTION NO. IS METAL STAMPED AT BOTTOM OF ONE LEG OF EACH SECTION.
2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
3. ALL MATERIAL HOT-DIPPED GALVANIZED AFTER FABRICATION.
4. BOLTS TO BE ASTM A-325 QUALITY.
5. THE USE OF SHIMS TO PERFECTLY PLUMB TOWER MAY BE NECESSARY.

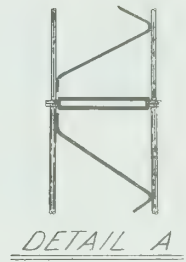
TOWER AXIS

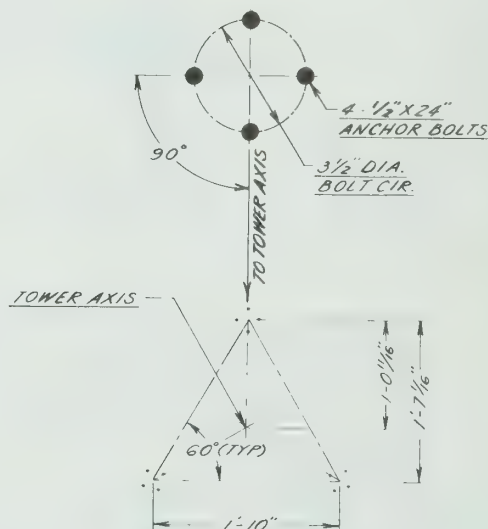
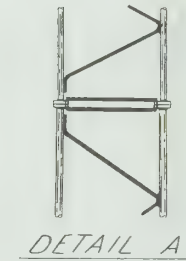
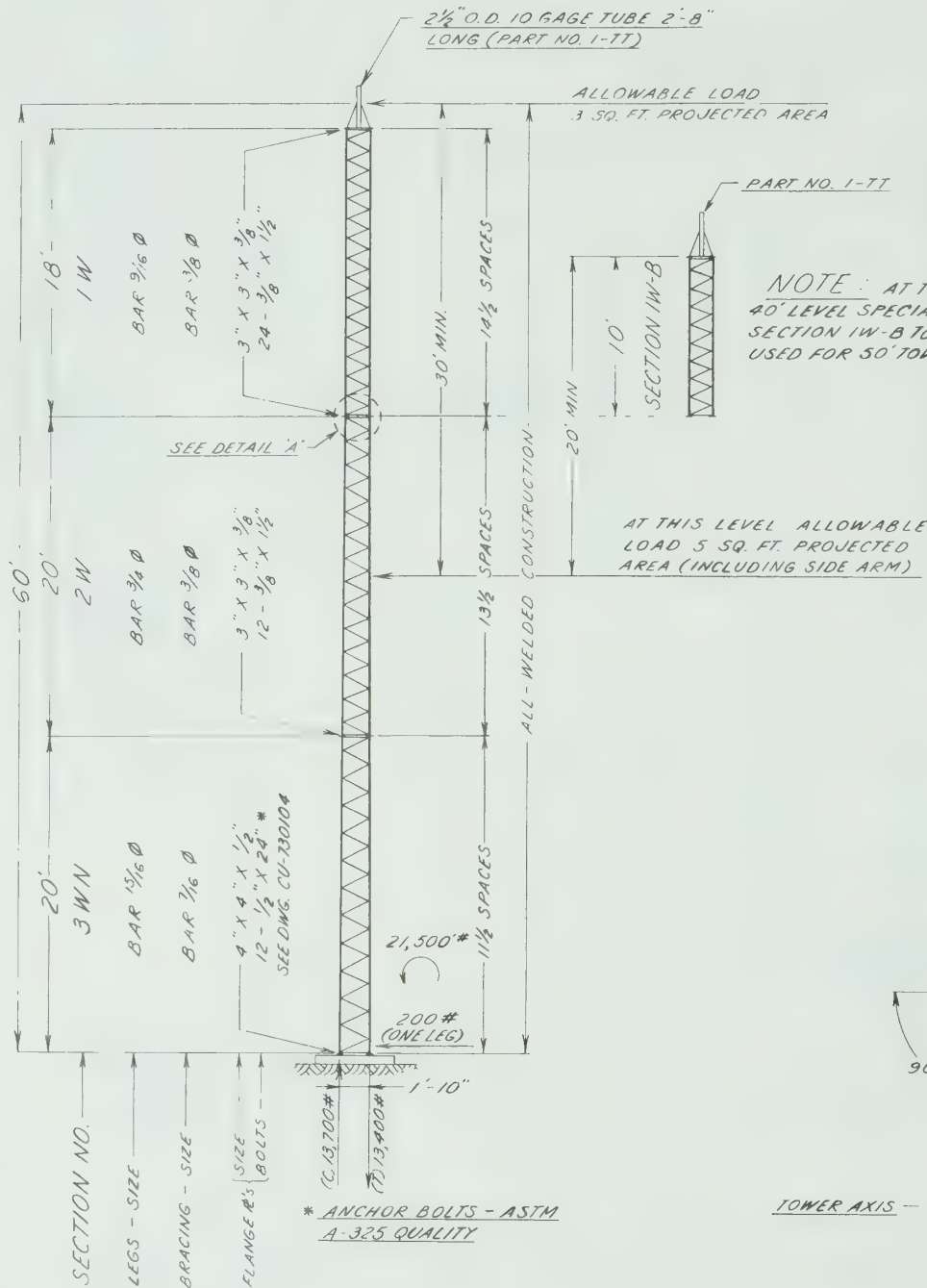


BASE DIMENSIONS

(FOR FOUNDATION DETAILS SEE DWG. D-700300R.)
(FOR ANCHOR DETAILS SEE DWG. CU-730104)

NO.	DESCRIPTION	DATE	BY
ROHN MANUFACTURING			
DIVISION OF			
TITLE 30' & 40' MODEL SSV TOWER 30 PSF E.I.A.			
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FILE NO.			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES			
DATE	BY	DATE	BY
1/13/73	GLS	2/18/73	T.S.
2/18/73	GLS	2/18/73	GLS
2/18/73	GLS	2/18/73	GLS
2/18/73	GLS	2/18/73	GLS
DWG. NO. CU-721109			





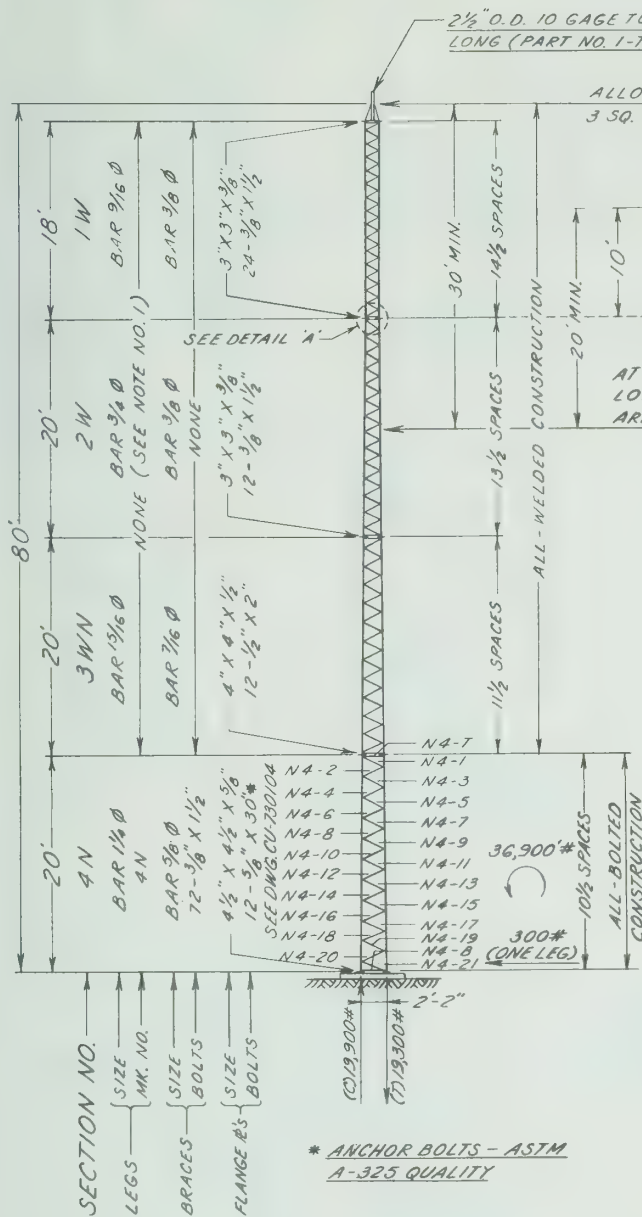
TOWER ELEVATION

GENERAL NOTES

1. SECTION NO. IS METAL STAMPED AT BOTTOM OF ONE LEG OF EACH SECTION.
2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
3. ALL MATERIAL HOT-DIPPED GALVANIZED AFTER FABRICATION.
4. BOLTS TO BE ASTM A-325 QUALITY.
5. THE USE OF SHIMS TO PERFECTLY PLUMB TOWER MAY BE NECESSARY.

BASE DIMENSIONS
(FOR FOUNDATION DETAILS SEE DWG. D-700.300 R2)
(FOR ANCHOR DETAILS SEE DWG. CU-730104)

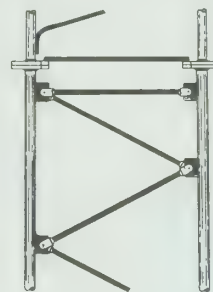
NO.	DESCRIPTION	DATE	BY
ROHN® MANUFACTURING DIVISION OF CLARK			
TITLE 50' & 60' MODEL SSV TOWER 30 P.S.F. E.I.A.			
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MATERIAL	DATE	BY	CHK
STEEL 1010	1/31/73	GLS	
WELD 70S	2/12/73	70S	
APP. 1010	2/19/73	1010	
APP. 1010	4/16/73	1010	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES			DWG. NO.
			CU-721110



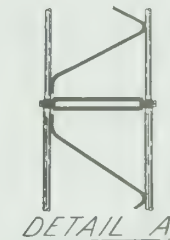
TOWER ELEVATION

GENERAL NOTES

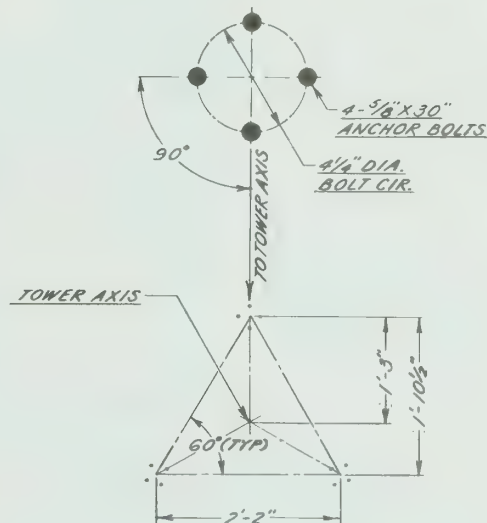
1. LEG MK. NO. IS METAL STAMPED AT BOTTOM OF EACH LEG OF BOLTED SECTIONS. SECTION NO. IS METAL STAMPED AT BOTTOM OF ONE LEG OF WELDED SECTIONS.
2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
3. ALL MATERIAL HOT-DIPPED GALVANIZED AFTER FABRICATION.
4. BOLTS TO BE ASTM A-325 QUALITY.
5. BRACE MK. NO. IS METAL STAMPED AT ONE END OF EACH BRACE (BOLTED SECTIONS ONLY).
6. THE USE OF SHIMS TO PERFECTLY PLUMB TOWER MAY BE NECESSARY.



BRACING DETAIL
(SECTION 4N)
SEE DWG. SK-720305



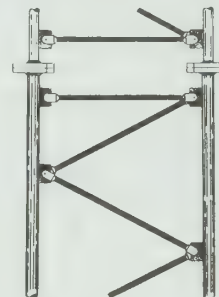
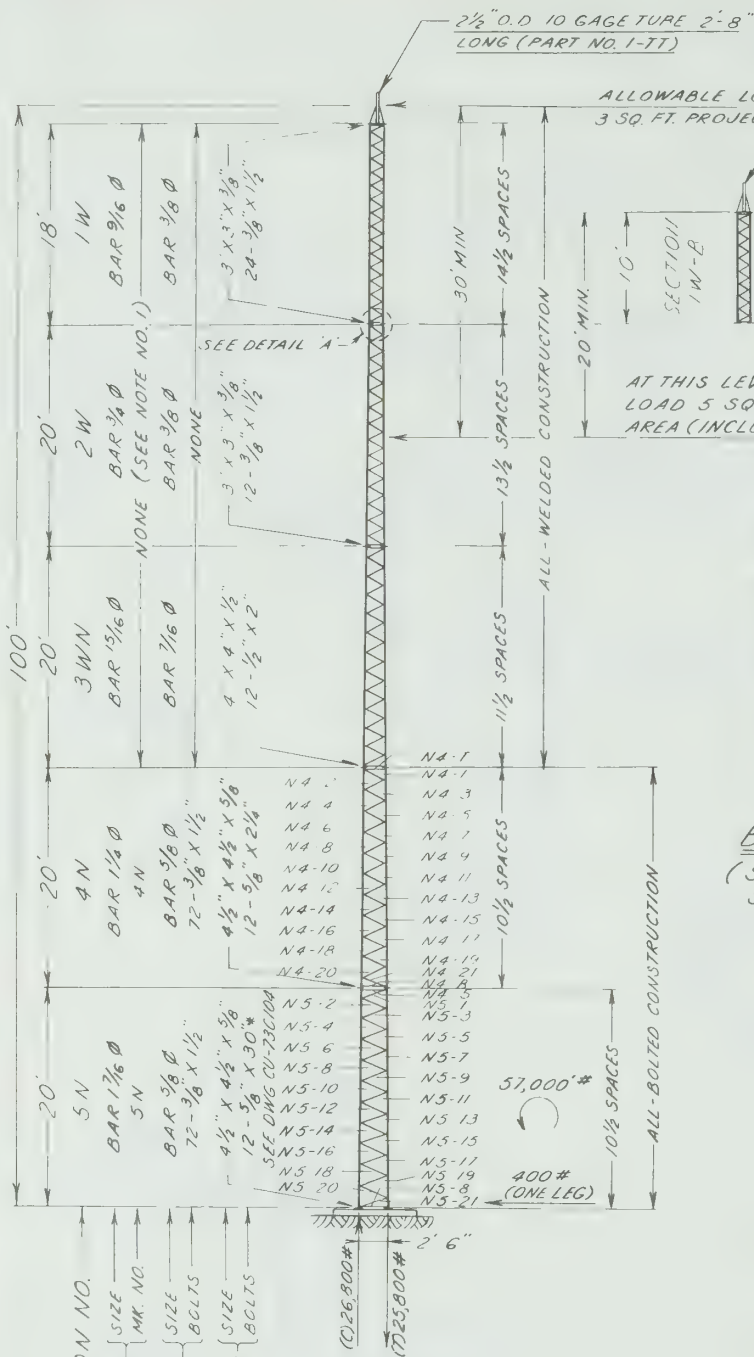
DETAIL A



BASE DIMENSIONS

(FOR FOUNDATION DETAILS SEE DWG. D-700300 R₁)
(FOR ANCHOR DETAILS SEE DWG. CU-730104)

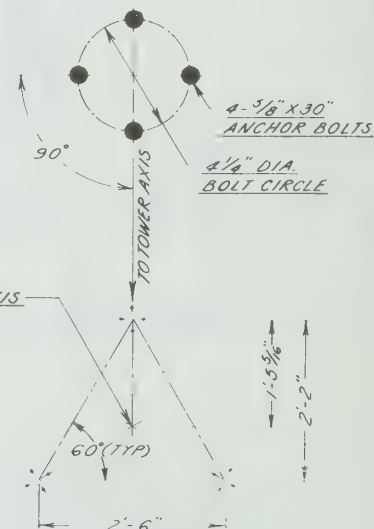
NO.	DESCRIPTION	DATE	BY
ROHN® MANUFACTURING DIVISION OF			
TITLE 70' & 80' MODEL SSV TOWER 30 P.S.F. E.I.A.			
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DATE 1/11/73	DRAWN BY G.L.S.	CHECKED BY T.S.	APPROVED BY G.R.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES		DWG. NO. CU-721111	



BRACING DETAIL
(SECTIONS 4N & 5N)
SEE DWG. SK-720305



DETAIL A



BASE DIMENSIONS

(FOR FOUNDATION DETAILS SEE DWG. D-700300R₂)
(FOR ANCHOR DETAILS SEE DWG. CU-730104)

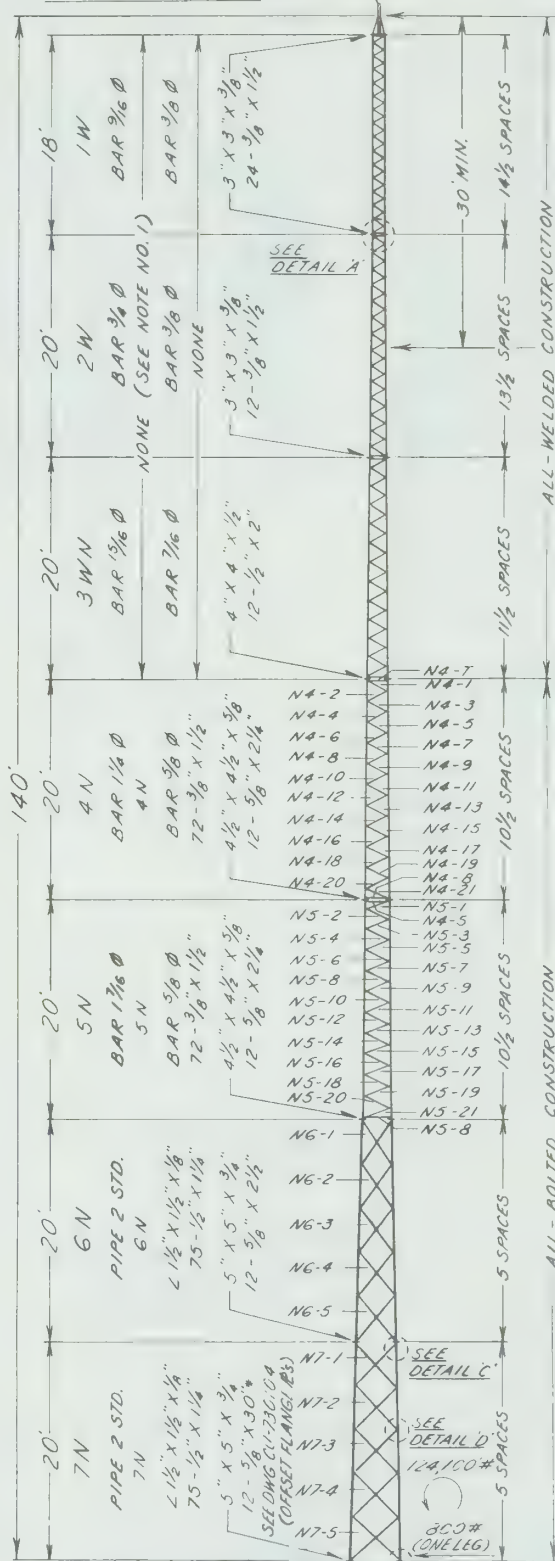
TOWER ELEVATION

GENERAL NOTES

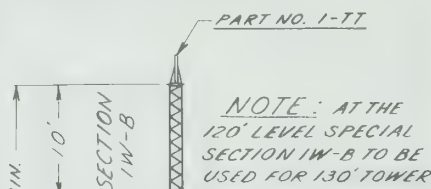
1. LEG MK. NO. IS METAL STAMPED AT BOTTOM OF EACH LEG OF BOLTED SECTIONS. SECTION NO. IS METAL STAMPED AT BOTTOM OF ONE LEG OF WELDED SECTIONS.
2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
3. ALL MATERIAL HOT-DIPPED GALVANIZED AFTER FABRICATION.
4. BOLTS TO BE ASTM A-325 QUALITY.
5. BRACE MK. NO. IS METAL STAMPED AT ONE END OF EACH BRACE (BOLTED SECTIONS ONLY).
6. THE USE OF SHIMS TO PERFECTLY PLUMB TOWER MAY BE NECESSARY.

NO.	DESCRIPTION	DATE	BY
ROHN® MANUFACTURING DIVISION OF CHRYSLER			
TITLE 90' & 100' MODEL SSV TOWER 30 P.S.F. E.I.A.			
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DRAWN BY: NONE CHECKED BY: G.L.S. DESIGNED BY: T.S. APPROVED BY: C.R.	DATE: 1/11/73 DATE: 8/12/73 DATE: 2/19/73 DATE: 4/6/73	TOLERANCES DEC. FRACTION ANGLES ± ± ±	DWG. NO. CU-721112

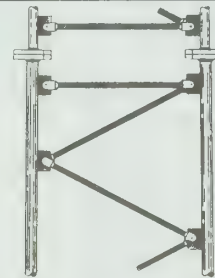
2 1/2" O.D. 10 GAGE TUBE 2'-8"
LONG (PART NO. 1-TT)



ALLOWABLE LOAD
3 SQ. FT. PROJECTED AREA

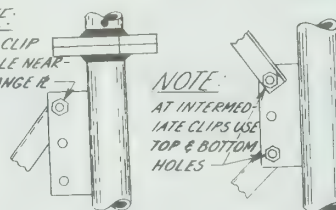


AT THIS LEVEL ALLOWABLE
LOAD 5 SQ. FT. PROJECTED
AREA (INCLUDING SIDE ARM)



NOTE:

AT TOP CLIP
USE HOLE NEAR-
EST FLANGE R.



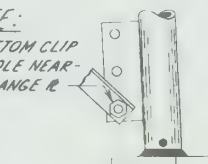
NOTE:

AT INTERMED-
IATE CLIPS USE
TOP & BOTTOM
HOLES



NOTE:

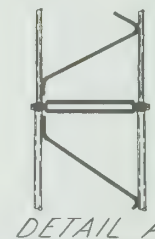
AT BOTTOM CLIP
USE HOLE NEAR-
EST FLANGE R.



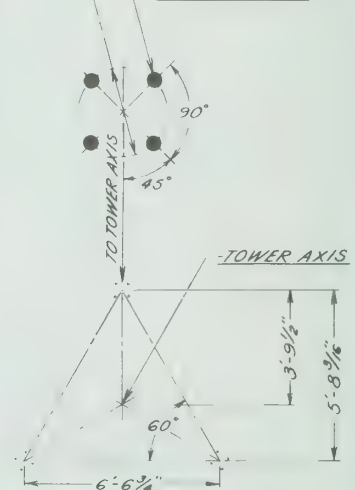
NOTE:

DETAILS 'B', 'C', & 'D' TYP
SECTIONS 6N & 7N.

NO.	DESCRIPTION	DATE	BY
REVISIONS			
ROHN® MANUFACTURING DIVISION OF			
TITLE 130' & 140' MODEL SSV TOWER 30 P.S.F. E.I.A.			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT OUR WRITTEN CONSENT.		FILE NO.	
SCALE	MATERIAL	FINISH	UNITED STATES SPECIFICATIONS ARE GIVEN IN INCHES.
DATE	BY	CHKD BY	APPROVED BY
2/11/73	G.L.S.	T.S.	2/14/73
DWG. NO.		CU-721114	



4 1/8" DIA. BOLT CIRCLE
3/8" X 30" ANCHOR BOLTS -
4 REQ'D. EA. LEG



BASE DIMENSIONS

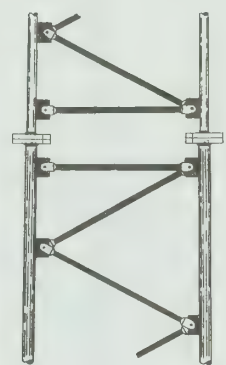
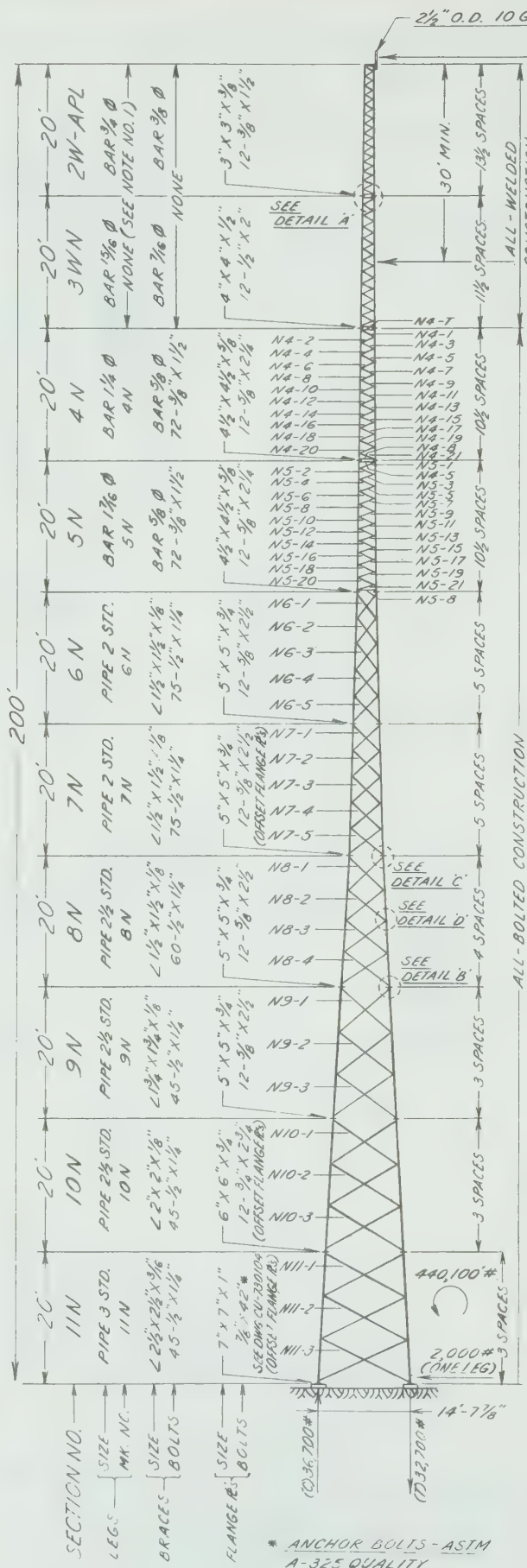
(FOR FOUNDATION DETAILS SEE DWG. D-700300R_a)
(FOR ANCHOR DETAILS SEE DWG. CU-730104)

GENERAL NOTES

1. LEG MK. NO. IS METAL STAMPED AT BOTTOM OF EACH LEG OF BOLTED SECTIONS. SECTION NO. IS METAL STAMPED AT BOTTOM OF ONE LEG OF WELDED SECTIONS.
2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
3. ALL MATERIAL HOT-DIPPED GALVANIZED AFTER FABRICATION.
4. BOLTS TO BE ASTM A-325 QUALITY.
5. BRACE MK. NO. IS METAL STAMPED AT ONE END OF EACH BRACE (BOLTED SECTIONS ONLY).
6. THE USE OF SHIMS TO PERFECTLY PLUMB TOWER MAY BE NECESSARY.
7. WHERE DRAINAGE IS REQ'D., A DRAIN HOLE IS PROVIDED AT THE BASE OF EACH LEG OF THE SECTION.
8. STEP BOLTS PROVIDED ONE LEG ONLY SECTIONS 6N & 7N.

* ANCHOR BOLTS - ASTM
A-325 QUALITY

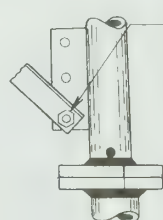
TOWER ELEVATION



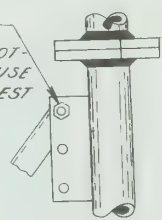
BRACING DETAIL
(SEC. 4N & 5N)
SEE DWG. SK-720305



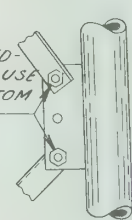
DETAIL A



DETAIL B



DETAIL C

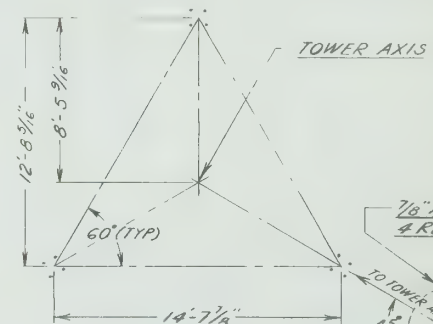


DETAIL D

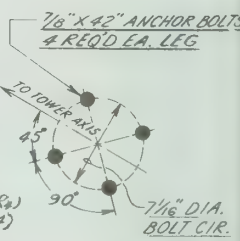
NOTE:
AT TOP & BOTTOM CLIPS USE HOLE NEAREST FLANGE

NOTE:
AT INTERMEDIATE CLIPS USE TOP & BOTTOM HOLES

(TYP SECTIONS 6N THRU 11N)



BASE DIMENSIONS
(FOR FOUNDATION DETAILS SEE DWG. D-700.300R)
(FOR ANCHOR DETAILS SEE DWG. CU-730104)



GENERAL NOTES

- LEG MK. NO. IS METAL STAMPED AT BOTTOM OF EACH LEG OF BOLTED SECTIONS. SECTION NO. IS METAL STAMPED AT BOTTOM OF ONE LEG OF WELDED SECTIONS.
- PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
- ALL MATERIAL HOT-DIPPED GALVANIZED AFTER FABRICATION.
- BOLTS TO BE ASTM A-325 QUALITY.
- BRACE MK. NO. IS METAL STAMPED AT ONE END OF EACH BRACE (BOLTED SECTIONS ONLY).
- THE USE OF SHIMS TO PERFECTLY PLUMB TOWER MAY BE NECESSARY.
- WHERE DRAINAGE IS REQD., A DRAIN HOLE IS PROVIDED AT THE BASE OF EACH LEG OF THE SECTION.
- STEP BOLTS PROVIDED ONE LEG ONLY SECTIONS 6N THRU 11N.

TOWER ELEVATION

NO.	DESCRIPTION	DATE	BY
ROHN MANUFACTURING DIVISION BY 200' MODEL SSV TOWER 30 P.S.F. E.I.A.			
TITLE 200' MODEL SSV TOWER 30 P.S.F. E.I.A.		FILE NO. CU-721118	
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT OUR WRITTEN CONSENT.			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.			
DATE	BY	CHKD	APP'D
3/2/73	GLS	GLS	GLS
3/13/73	T.S.	T.S.	T.S.
2/19/73	GLS	GLS	GLS
3/6/73	GLS	GLS	GLS

SELF-SUPPORTING TOWER

SSVN SERIES

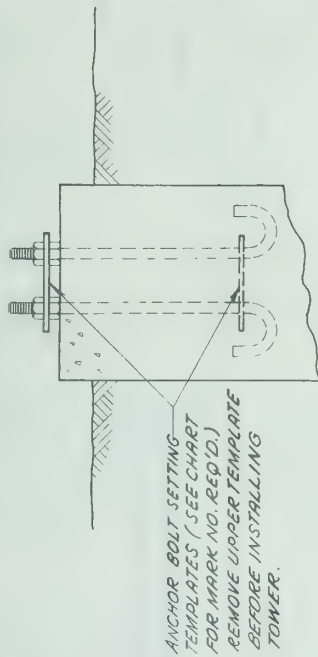
30 Lbs./Sq. Ft. Wind Load

ITEM & PART NUMBER	WT.	TOWER HEIGHT															180'	190'	200'
		30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'			
Tapered Top																			
1TT	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18' Welded Straight Section																			
1W	116		1		1		1		1		1		1		1		1		
10' Welded Straight Section																			
1WB	65	1		1		1		1		1		1		1		1		1	
Beacon Plate																			
APL1W2WA	26																		1
Side Arm Bracket																			
SAB2W	15																		1
20' Welded Tapered Section																			
2W	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Welded Tapered Section																			
3WN	230			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section																			
4N	435					1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section																			
5N	540							1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section										1*	1*	1	1	1	1	1	1	1	1
6N	480																		
20' Knock Down Tapered Section												1*	1*	1	1	1	1	1	1
7N	545																		
20' Knock Down Tapered Section															1*	1	1	1	1
8N	700																		
20' Knock Down Tapered Section																1*	1	1	1
9N	720																		
20' Knock Down Tapered Section																		1*	1
10N	830																		
20' Knock Down Tapered Section																			
11N	1410																		1*
Base Grounding Kit																			
BGKE	10	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
SB2	45	1	1																
SB3	65			1	1														
SB4	80					1	1												
SB5	105							1	1										
GNAB	50									1	1	1	1	1	1	1	1	1	
TONAB	80																		
11NAB	110																		1
Anti-Climb Warning Sign																			
ACWS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOWER WEIGHT		308	359	558	609	1008	1059	1573	1624	1994	2045	2539	2590	3239	3290	3959	4010	4819	6229

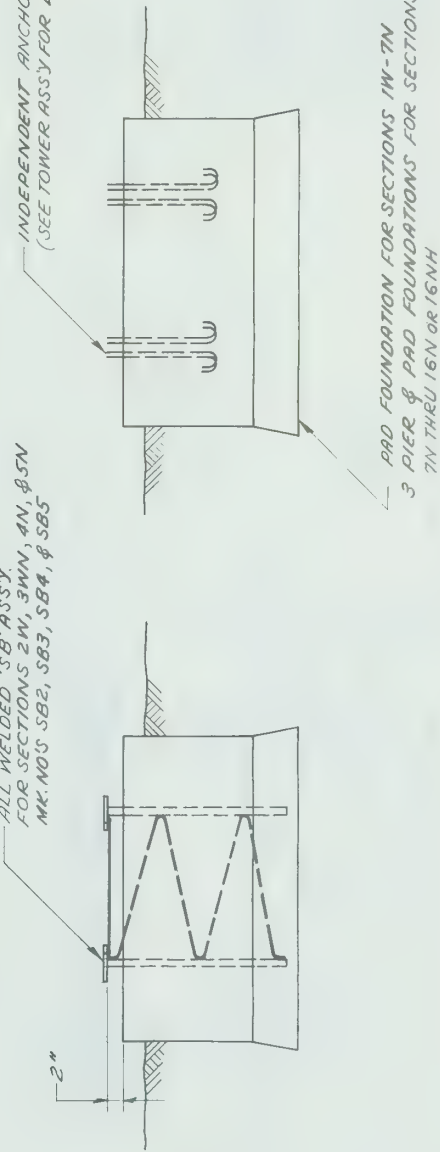
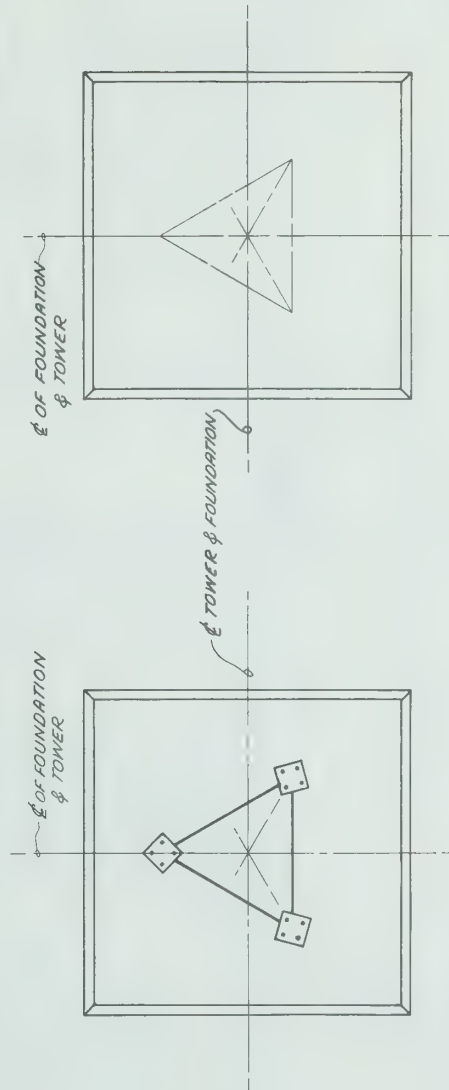
*Base section of the tower should be designated as such.

See applicable drawings for foundation and loading details.


BOLT TEMPLATE INFORMATION				
TEMPLATE MK. NO.	PART NO.	ANCHOR BOLTS	BASE FLANGE SIZE	TOWER BASE SECTION (SEE TOWER ASS'Y)
VL-25	6N-A8	5/8 X 30"	5 X 5 X 3/4	6N, 7N, 8N, 9N, 9NH
VL-26	10N-A8	3/4 X 36"	6 X 6 X 3/4	10N, 10NH
VL-27	11N-A8	7/8 X 42"	7 X 7 X 1	11N, 12N, 12NH, 13N, 13NH
VL-28	14N-A8	1 X 48"	9 1/2 X 9 1/2 X 1 1/4	14NH, 14N, 15N, 16N
VL-28	15NH-A8	1 X 72"	9 1/2 X 9 1/2 X 1 1/4	15NH & 16NH



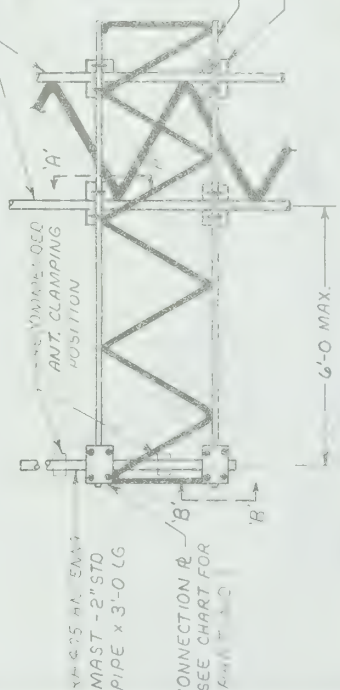
1. *IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIFY THAT THE CORRECT SETTING TEMPLATE & FOUNDATION DWG. ARE BEING USED.*
2. *CHECK ANCHOR BOLT SIZE, NO., SPACING, & BOLT CIRCLE DIA. ON TEMPLATE AGAINST ANCHOR BOLT LAYOUT DRAWINGS BEFORE INSTALLATION.*
3. *BOLT TEMPLATES AVAILABLE FOR SECTIONS 6N THRU 16N OR 16NH.*
4. *ALLOW FOR DRAINAGE OF ALL PIPE LEG TOWER SECTIONS.*
5. *PART NO. IN CHART AT UPPER LEFT CONSISTS OF 12 ANCHOR BOLTS & 6 TEMPLATES.*



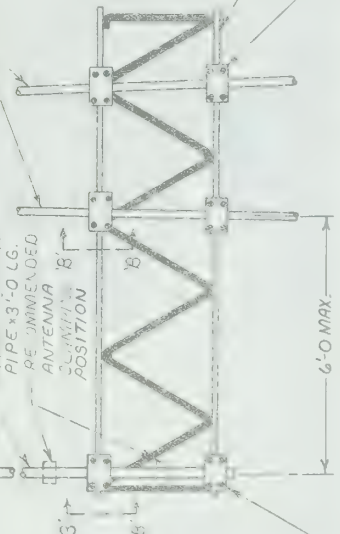
NOTE: SEE DWG. NO. 8-140973 FOR TEMPLATE FABRICATION DETAILS.

R ₂	R ₂ RE-DRAWN (REPLACES CU-T8010 & R ₁)	2-14-75	Q4
NO.	DESCRIPTION	DATE	BY
REVISONS			
ROHN® MANUFACTURING			
DIVISION OF 			
TITLE	ANCHOR BOLT SETTING TEMPLATE INFORMATION & SHORT BASE DETAILS		
THIS DRAWING IS THE PROPERTY OF ROHN; IT IS NOT TO BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
SCALE	MATERIAL	FINISH	WT
DRAWN BY	DATE	DIMENSIONS OTHERWISE SPECIFIED ARE GIVEN IN INCHES UNLESS OTHERWISE SPECIFIED	
CED BY	2-14-75		
APPROVED	SIG'D - 1-75	DWG NO	
DATE	4-1-75	CU-T80104	
APP'G	10-1-75		
DATE	10-1-75		
TYPED		ANGLER	
		PAC.	Z
		DEC	Z
		TOO EXHAUST	Z

SOLID ROD TOWER
LEG - SECS. 2W,
3/4" DIA. 94" W. 1/4"



PIPE TOWER LEG -
SECS. 6N, 7N, 8N,
9N, 9NH, 10N & 10NH



GENERAL NOTES

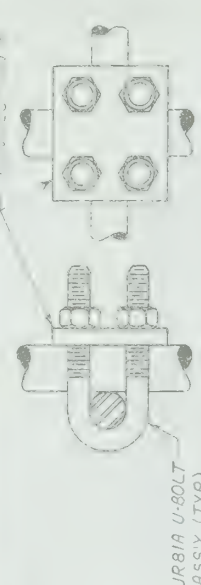
1. ONE ANTENNA MAST KIT PROVIDED W/ EACH BOOM ASSY. IF ADDITIONAL MAST KITS ARE REQUIRED THEY MUST BE PURCHASED SEPARATELY. SEE CHART FOR ASSY. NO. AND DATA.
2. OUTSIDE LEG OF 1W BOOM SECTION HAS BEEN OMITTED FOR CLARITY OF BOOM CONNECTIONS.
3. ALL BOOMS DESIGNED TO SUPPORT A MAXIMUM PROJECTED AREA OF 3 SQ. FT. - 6'-0" FROM TOWER LEG & 3'-0" ABOVE AXIS OF THE BOOM - 30 PSF WIND E.I.A.

ASSY. NO.	DESCRIPTION
SSV - 25 - 6B	TOWER SECT. BOOM CUT
MODEL NO.	LENGTH

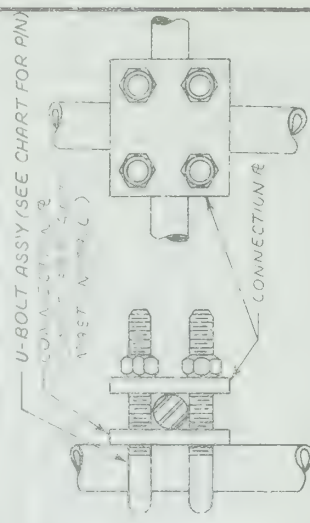
BILL OF MATERIAL

Assy No	Part No	QTY	DESCRIPTION	Dwg No	Assy No	Part No	QTY	DESCRIPTION	Dwg No
SSV-25-6A	VY 970	4	CONNECTION R.	B-710330R	SSV-89-12B	VY 972	8	CONNECTION R.	B-710330R
	VY 973	1	6' LG. 1W BOOM	B-770479		VY 979	1	9' LG. 1W BOOM	B-770479
	JR83A	4	U-BOLT ASSY.	B-651028R		JR83A	4	U-BOLT ASSY.	B-651028R
	JR83A	4	U-BOLT ASSY.	B-651028R		VY 971	2	CONNECTION R.	B-710330R
SSV-25-98	VY 971	2	CONNECTION R.	B-710330R	SSV-8910-15B	VY 975	1	12' LG. 1W BOOM	B-770479
	VY 973	1	6' LG. 1W BOOM	B-770479		JR83A	4	U-BOLT ASSY.	B-651028R
	JR83A	8	U-BOLT ASSY.	B-651028R		VY 976	1	15' LG. 1W BOOM	B-770479
	JR83A	4	U-BOLT ASSY.	B-651028R		JR83A	4	U-BOLT ASSY.	B-651028R
SSV-6-6B	VY 971	1	ANTENNA MAST	B-770160R	SSV-67-98	KH 475	1	ANTENNA MAST	B-770160R
	VY 973	10	CONNECTION R.	B-710330R		VY 971	2	CONNECTION R.	B-710330R
	VY 975	12	6' LG. 1W BOOM	B-770479		VY 972	8	CONNECTION R.	B-710330R
	VY 977	10	CONNECTION R.	B-710330R		VY 977	1	18' LG. 1W BOOM	B-770479
SSV-67-98	VY 974	1	9' LG. 1W BOOM	B-770479	SSV-910-18B	JR83A	4	U-BOLT ASSY.	B-651028R
	JR83A	12	U-BOLT ASSY.	B-651028R		JR83A	8	U-BOLT ASSY.	B-651028R
	VY 971	1	ANTENNA MAST	B-770160R		KH 475	1	ANTENNA MAST	B-770160R
	VY 973	10	CONNECTION R.	B-710330R		VY 971	2	CONNECTION R.	B-710330R
SSV-67-12B	VY 975	1	12' LG. 1W BOOM	B-770479	SSV-7-15B	VY 977	1	18' LG. 1W BOOM	B-770479
	VY 977	10	CONNECTION R.	B-710330R		JR83A	4	U-BOLT ASSY.	B-651028R
	KH 475	1	ANTENNA MAST	B-770160R		KH 475	1	ANTENNA MAST	B-770160R
	VY 971	10	CONNECTION R.	B-710330R		VY 971	2	CONNECTION R.	B-710330R
SSV-7-15B	VY 976	1	15' LG. 1W BOOM	B-770479		JR83A	4	U-BOLT ASSY.	B-651028R
	JR83A	12	U-BOLT ASSY.	B-651028R		KH 475	1	ANTENNA MAST	B-770160R
	KH 475	1	ANTENNA MAST	B-770160R					
	VY 971	10	CONNECTION R.	B-710330R					

SECTION 'A'-A'



SECTION 'B'-B'



Unarco-Rohn
DIVISION OF UNARCO INDUSTRIES, INC.

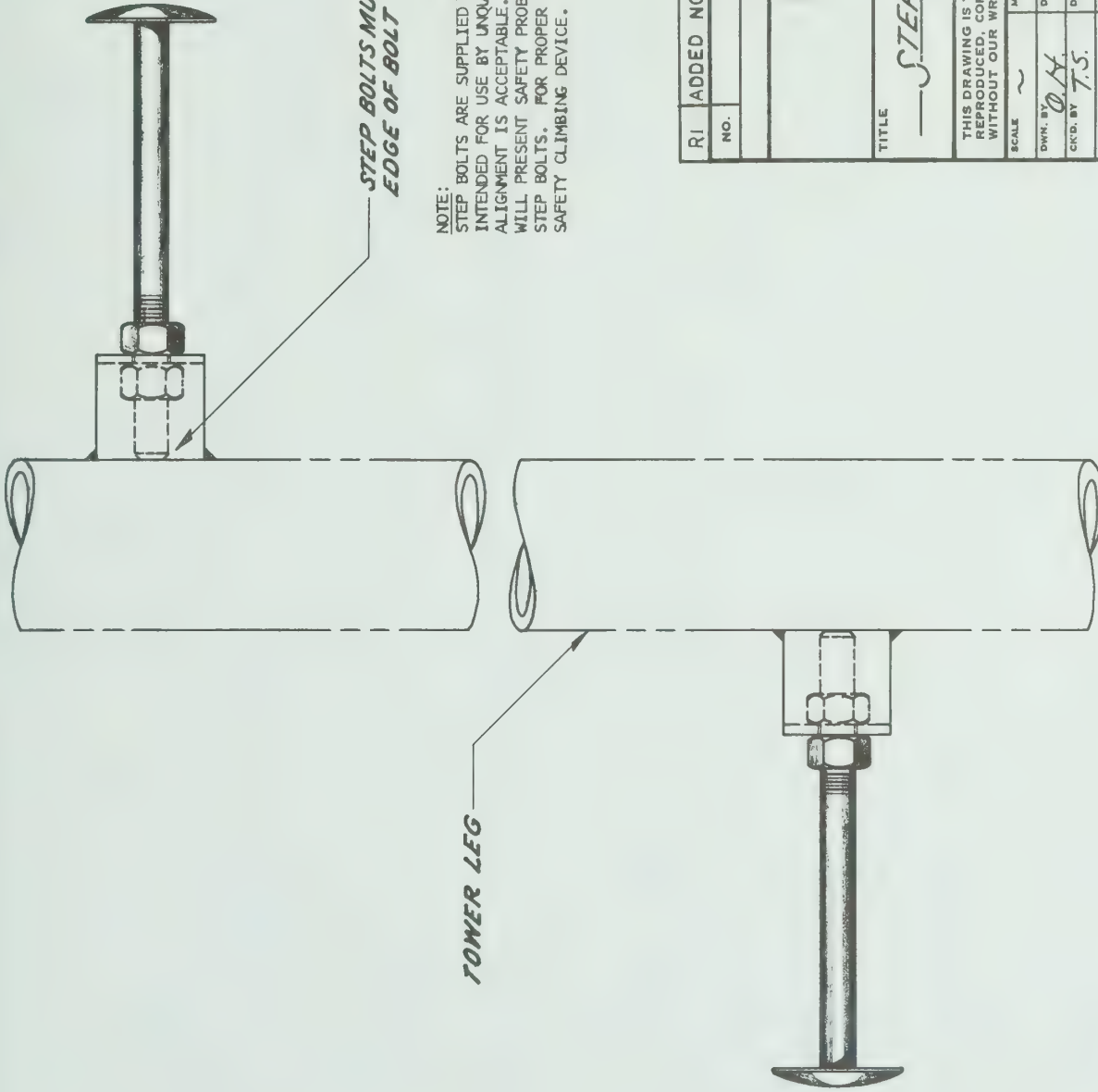
1W BOOM INSTALLATIONS

Scale: NONE
Drawn by: MDI
Checked by: MDI
Approved by: Engineering
Approved by: Production

Date: 6-24-77
Date: 6-24-77
Date: 6-24-77

File Number: C-710348R


Approved by Sales: PM
Date: 6-28-77



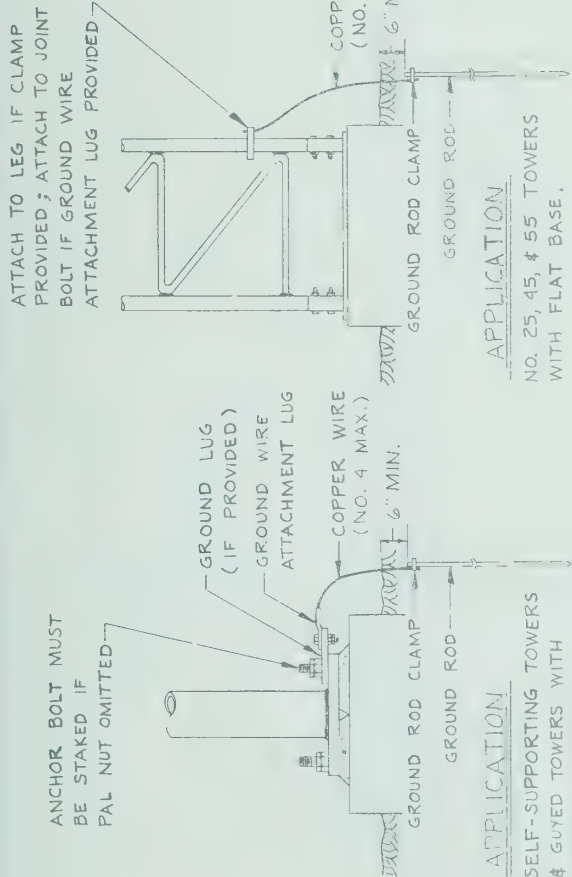
STEP BOLTS MUST BE TURNED IN UNTIL FRONT
EDGE OF BOLT TOUCHES SIDE OF TOWER LEG.

NOTE:

STEP BOLTS ARE SUPPLIED FOR CONSTRUCTION PURPOSES AND ARE NOT
INTENDED FOR USE BY UNQUALIFIED PERSONNEL. A DEVIATION FROM PERFECT
ALIGNMENT IS ACCEPTABLE. IF YOU OR YOUR CUSTOMER THINK STEP BOLTS
WILL PRESENT SAFETY PROBLEMS TO ANY PERSONNEL, DO NOT INSTALL THE
STEP BOLTS. FOR PROPER SAFETY UNR-ROHN RECOMMENDS A LADDER AND
SAFETY CLIMBING DEVICE.

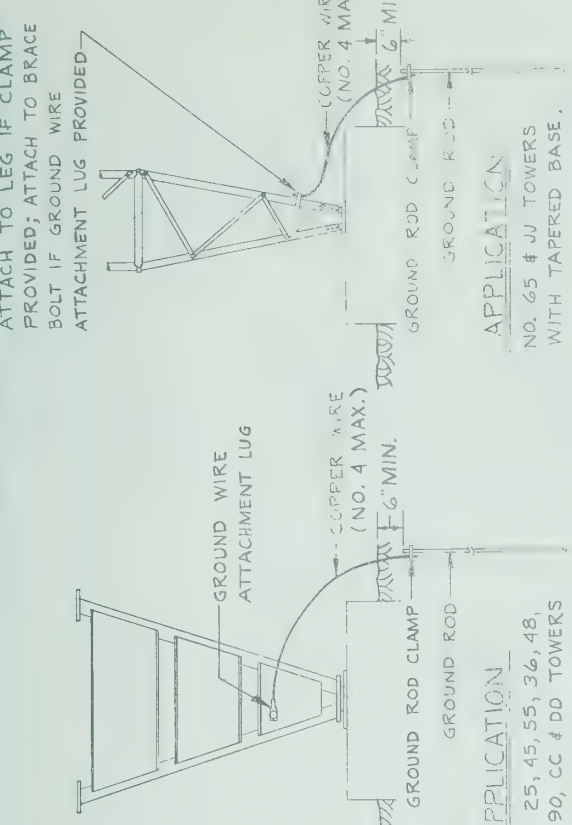
RI	ADDED NOTE	1-2-85	MK
NO.	DESCRIPTION	DATE	BY
REVISIONS			
ROHN® MANUFACTURING DIVISION OF 			
TITLE <u>STEP BOLT INSTALLATION DETAIL</u>			
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SCALE	MATERIAL	FINISH	WT.
DWN. BY <i>O.H.</i>	DATE <i>9-16-74</i>	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	
CHKD. BY <i>T.S.</i>	DATE <i>4-17-74</i>	DWG. NO. <i>B-651264</i>	
APPR. ENGR. <i>W.W.</i>	DATE <i>4-17-74</i>	TOLERANCES	
APPR. MGR. <i>W.W.</i>	DATE <i>4-17-74</i>	DEC. 2 2 2	

ANCHOR BOLT MUST BE STAKED IF PAL NUT OMITTED



APPLICATION
 SELF-SUPPORTING TOWERS & GUYED TOWERS WITH ANCHOR BOLTS.

ATTACH TO LEG IF CLAMP PROVIDED; ATTACH TO BRACE BOLT IF GROUND WIRE ATTACHMENT LUG PROVIDED



APPLICATION
 NO. 25, 45, 55, 36, 48, 80, 90, CC & DD TOWERS WITH TAPERED BASE.

BASE GROUNDING KITS (BGK OR BGKE)

NOTE:
 REMOVE ALL SHARP BENDS FROM COPPER WIRE

CLAMP NO. : GUY WIRE SIZE

3400028	: 3/16" THRU 1/2"
3400023	: 9/16" THRU 3/4"
3400021	: 7/8" AND 1" (SEE INSTALLATION DETAIL B801367)



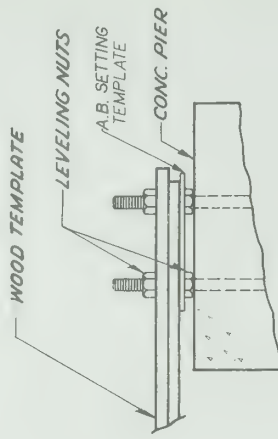
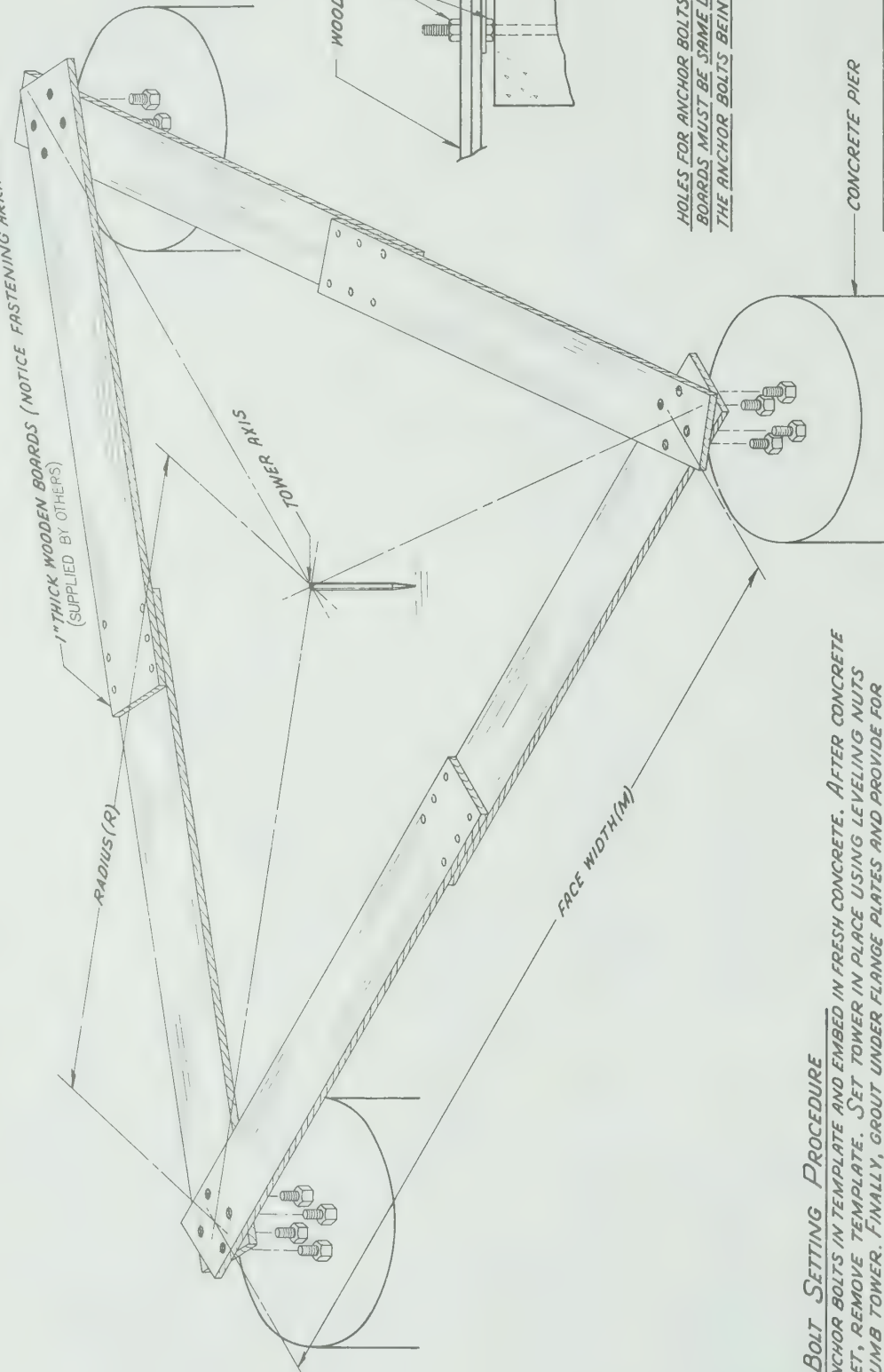
GUY WIRE GROUNDING
 (AGK OR AGKE)

ANCHOR ROD GROUNDING
 (RGK OR RGKE)

R2	ADDED GROUND CLAMP KIT NO 9842L	11-21-80	AUG
<div> <div>ROHN® MANUFACTURING</div> <div> <p>THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.</p> </div> </div>			
<p>UNDER GROUNDING METHODS</p>			

ANCHOR GROUNDING KITS

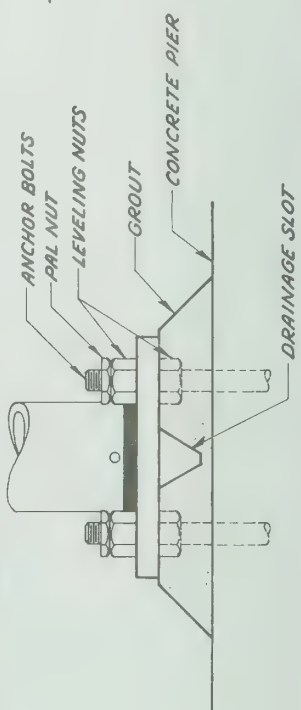
1" THICK WOODEN BOARDS (NOTICE FASTENING ARRANGEMENT)



HOLES FOR ANCHOR BOLTS IN WOODEN BOARDS MUST BE SAME DIAMETER AS THE ANCHOR BOLTS BEING USED.

ANCHOR BOLT SETTING PROCEDURE

SET ANCHOR BOLTS IN TEMPLATE AND EMBED IN FRESH CONCRETE. AFTER CONCRETE HAS SET, REMOVE TEMPLATE. SET TOWER IN PLACE USING LEVELING NUTS TO PLUMB TOWER. FINALLY, GROUT UNDER FLANGE PLATES AND PROVIDE FOR DRAINAGE OF ALL 3 TOWER LEGS.



NOTE: ANCHOR BOLT ORIENTATION SHOWN ABOVE IS ONLY FOR SECTIONS 6N THRU 16N STANDARD OR HEAVY SERIES.

R2	UPDATED	DRAWING	8-4-80	AUG
R1	ADDED	NOTE	4-12-77	
No.	Revision	Description	Date	By

Unarco-Rohn
Division of Unarco Industries, Inc.

ANCHOR BOLT SETTING PROCEDURE SELF-SUPPORTING TOWERS

Size	NONE	Tolerances	Decimals	Fractions	Angles	Weight
Drawn by	OH	Date	10-11-71			
Checked by	JS	Date	10-13-71			
Approved by Engineering	RA	Date	10-13-71			
Approved by Production		Date				
Approved by Sales		Date				

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Drawing Number C71017 R2

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

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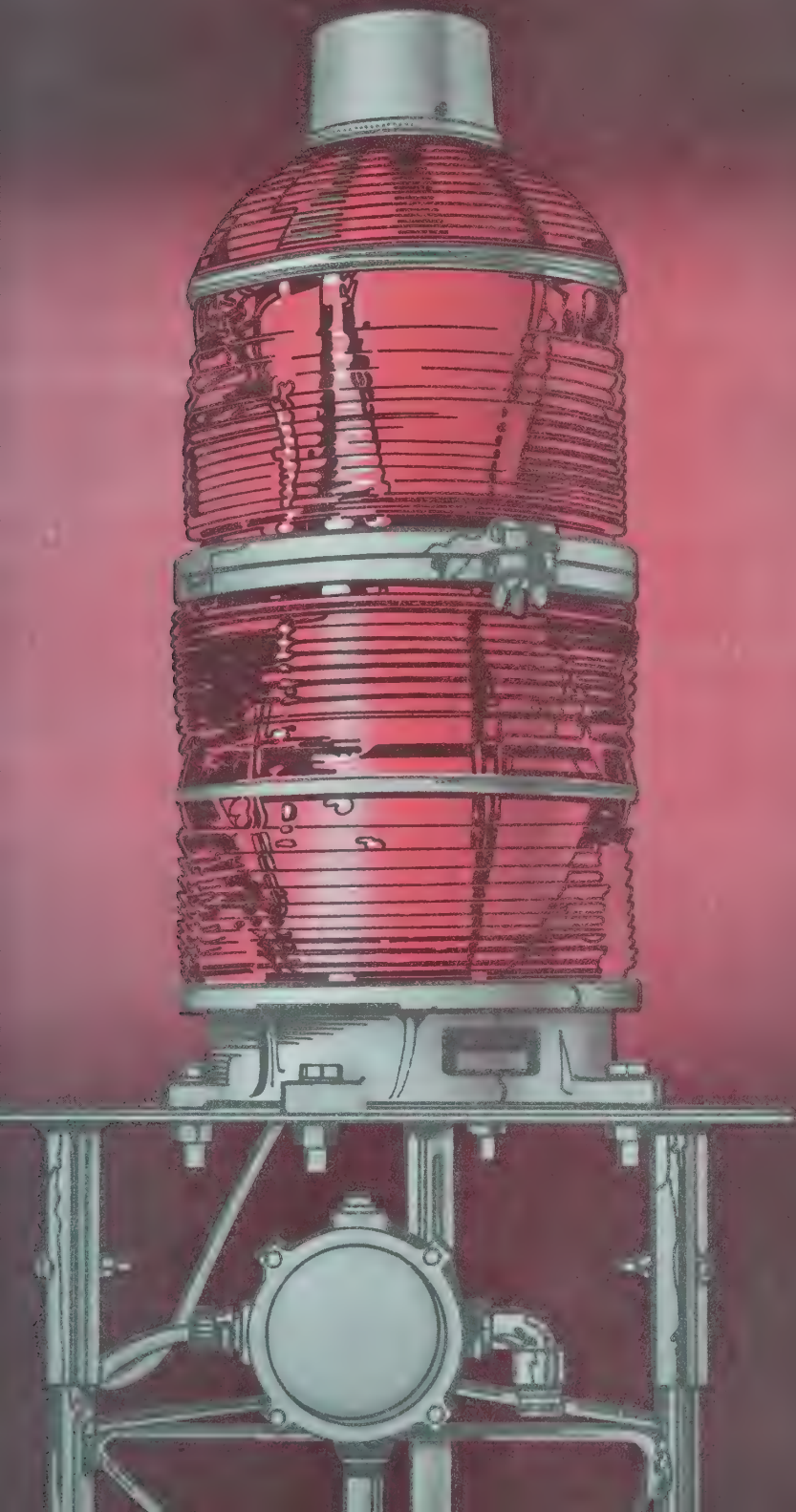
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Rohn

lighting equipment



quality design and construction for unsurpassed performance

Compare these features and you will find Rohn Lighting Equipment is your best buy:

- 300mm Beacons
- Obstruction lights
- Lighting controls & flashers
- Junction boxes designed and built to meet all FAA and FCC specifications

Complete kits available for towers up to 1050'. Special kits available upon request.

A. ROHN® BIR 300mm Code Beacon

Engineered to meet all FCC and FAA Beacon specifications, Rohn Beacons are furnished with red heat resistant lenses. The tough internal wiring is made of heavy insulated flexible cable. The Rohn Beacon is designed for continuous service under all weather conditions.

Mounting dimensions:

31" high x 12¾" diameter

Two 620w 120V 3000 hour mogul prefocused airway beacon lamps are required. Rohn part #B620W. (Ordered separately)

ROHN® Lightning Rod

LR — 7/8" x 6' aluminum rod

LRC — copper clad steel — nickel tipped
5/8" x 5' lightning rod only

ROHN®

obstruction lights

B. OB1 Single

Supplied with a 3/4" pipe side entrance tap, the OB1 is designed to facilitate installation on horizontal conduit stubs.

C. OB2 Double

Same as OB1 — except the OB2 has double lamps and bottom entrance fitting for installation on 3/4" vertical conduit.

Both models use flanged Fresnel lenses, stainless steel latches and retainer cable, copper-free cast aluminum alloy housings. Lamps not included. (116 watt, 120V, 8000 hour lamps. Rohn P.N. OB116W).

100 watt 230V lamps are available on special order for ICAO International Systems. Rohn P.N. OB100W. Life span of 230V lamps is approximately 1/2 that of the 120V lamp.

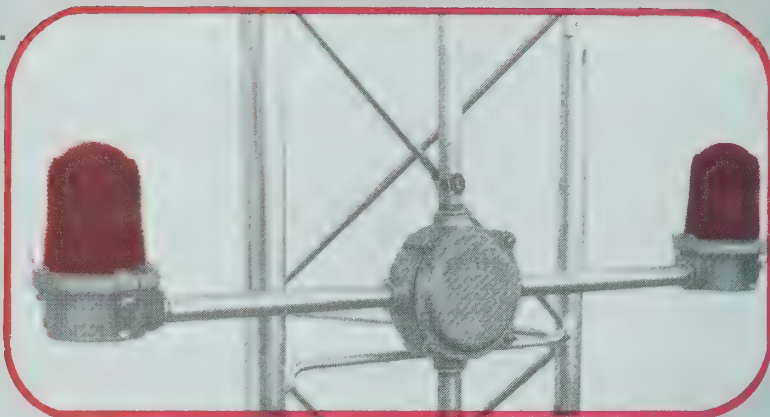
ROHN®

lighting controls

D. photoelectric control

RPH1-120V. A light sensitive control to turn tower lights on automatically when sun light level drops. For use with type A1 or ICAO Lighting System. Load capacity is 500 watts at 120V.

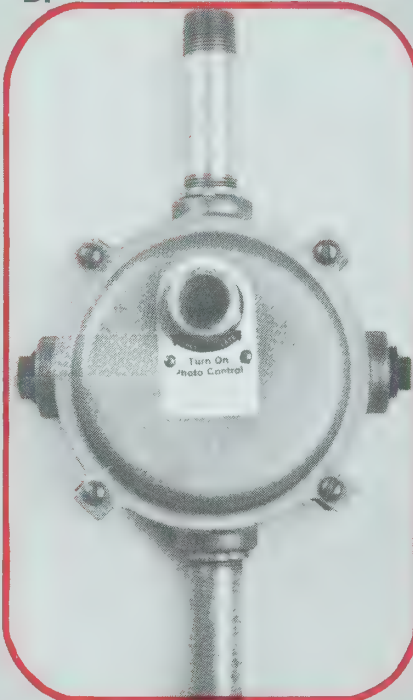
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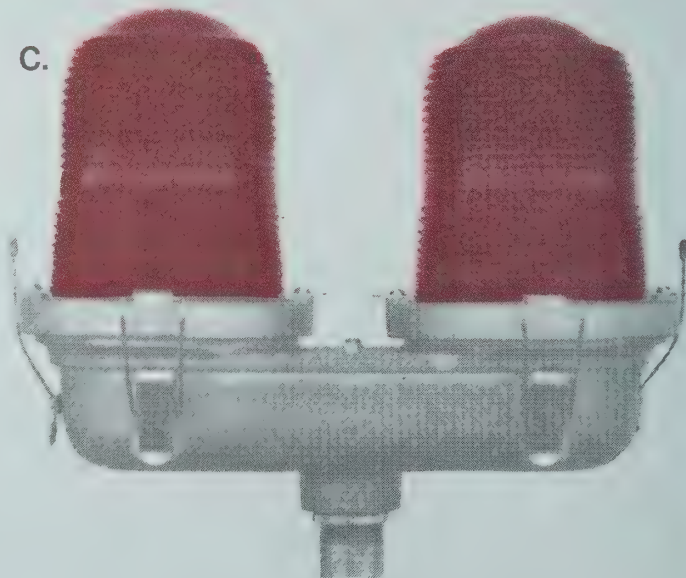
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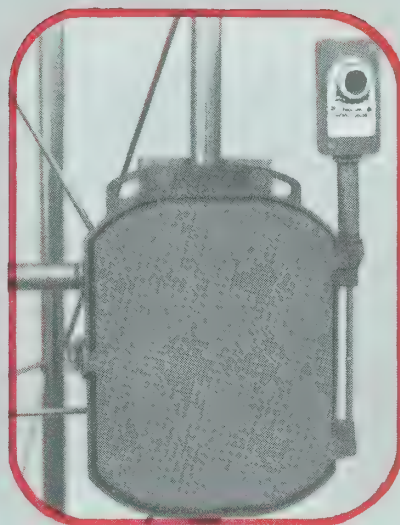
D.



C.



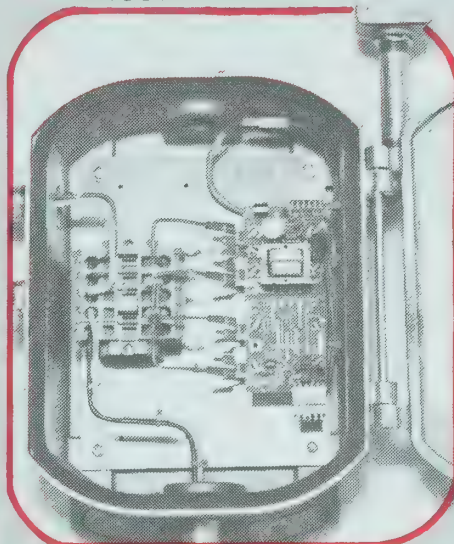
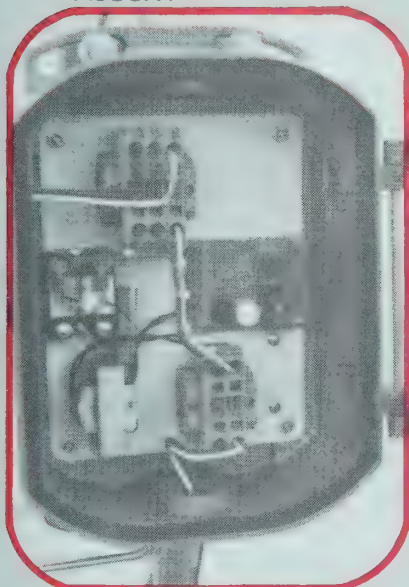
B.



FA1SS1

FA1SS1

A3SSX1



RPH2-230V. The same as RPH-1 except load capacity is 1000 watts at 230V.

solid state lighting controls

Available in 120VAC or 230VAC operation. Pre-set for 26 plus or minus 3 flashes per minute. Controls are available in many configurations to meet FAA Advisory Circular 70/7460-1G dated 10-22-85. See control assembly part numbers and description on sheet D2336 for more information.

quality features by ROHN

1. Flasher and photocell circuit are low voltage and completely isolated from the power line.
2. Light emitting diodes indicate proper operation of each section of circuitry.
3. Opto-isolated solid state power relays provide zero voltage switching, giving longer lamp life and reduced RFI.
4. Lightning Arrestor responds to unwanted and dangerous overloads.
5. Most components are available at local electronic distributors.
6. Interchangeable with models RC23, RC23IPC, LC23, A3RC, A3R1 and A3SS1 using the same mounting holes and outdoor box.

Flasher rate — 26 + / — 3FPM 2/3 on, 1/3 off

Power input — 108-132 VAC

Flasher Output — 1500 Watts incandescent

Sidelight Output - 1500 Watts incandescent

Photocell Turn On — Adjustable

Beacon flasher unit only

Models A3SSX1 and A5SSX1 are designed to flash the beacon only. Photocontrol or time switch is provided by the user.

ROHN[®] solid state alarm controls

A1LCA — For towers to 150'

A3LCA — For towers 151' - 350'

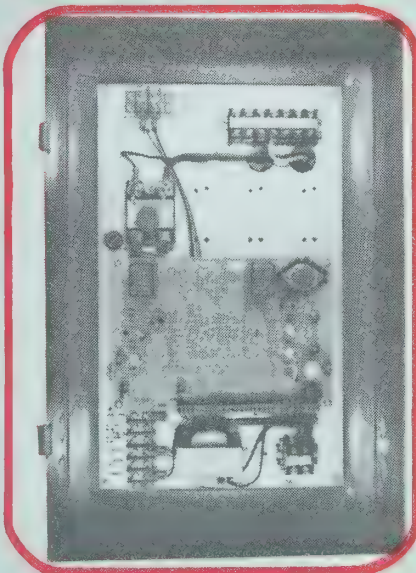
A5LCA — For towers 351' - 700'

The Rohn Tower Light Control and Alarm System utilizes the latest state of the art electronics to provide extremely reliable control of tower lights, with "fail safe" alarming of all functions.

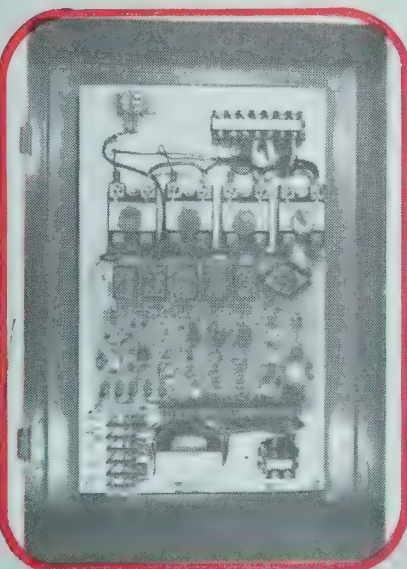
Use of solid state electronics greatly increases reliability over mechanical devices and thermal rays.

ROHN quality features

1. Adjustable automatic turn on and off — as required by the FAA and FCC.
2. Flashing rate of approximately 30 per minute, with "on time" twice that of "off time."
3. Indications provided by alarm circuitry:
 - Lights on
 - Failure of one or more beacons or side lights
 - Beacon flasher failure. (automatic turn on to continuous burn if failure occurs)
 - Power failure to unit
4. Visual indicators and test switches allow testing of functions without outside equipment.
5. All controls are 120VAC, single phase.



A1LCA

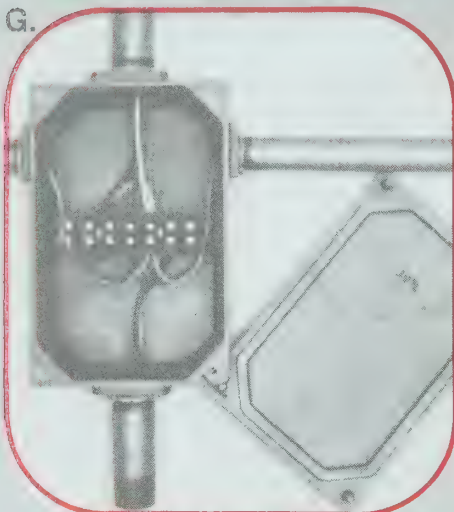


A5LCA

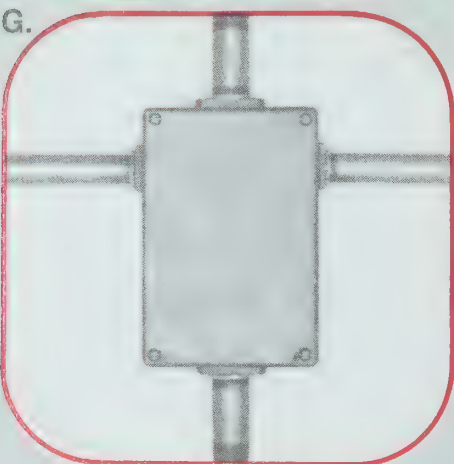
E.
F.



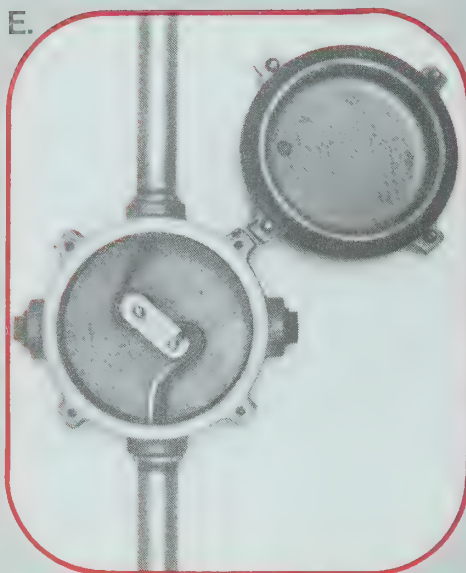
G.



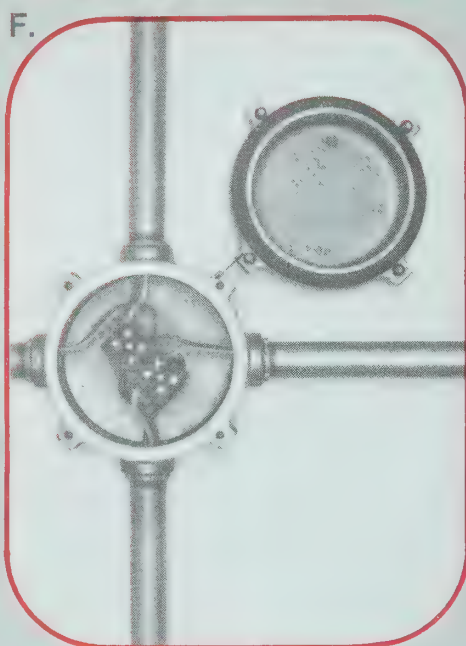
G.



E.



F.



ROHN[®]

Junction boxes

Rohn Junction Boxes are weathertight, copper-free cast aluminum boxes. Each box is furnished with a cover, neoprene sealing gasket, stainless steel safety cable and self-retaining cover screws. Each box comes with 4 or 7 contact pressure type terminal blocks, as required.

E. JB4C

Wire support for vertical run. The wire support employs a "change of direction" principle for full support.

F. JB4TC

Wire terminal and support for vertical and horizontal run.

JB4 Series Specifications

Approximate inside dimensions — 5" diameter X 2" depth. Four position terminal block, 3/4" pipe thread hub, 4 directions.

G. JB7TC

Box, terminal and cable support.

JB7TC Specifications

Approximate inside dimensions — 5" X 8" X 2" deep. Seven position terminal block, hub tap 1" vertical and 3/4" horizontal pipe threads.

ROHN[®]

6718 W. Plank Road
P.O. Box 2000
Peoria, IL 61656
TWX: 910-652-0646 FAX: 309-697-5612
PHONE: 309-697-4400
U.S.A.

OBSTRUCTION LIGHTING COMPONENTS

<u>PART NUMBER</u>		<u>WT.</u>
*B1	300 MM beacon with red filter screens - no bulbs	86
B1R	300 MM beacon with red glass - no bulbs	77
OB1	Single obstruction light (red), 3/4" side entrance - no bulbs	4
OB2	Double obstruction light (red), 3/4" bottom entrance - no bulbs	8
RPH1	Photo control only, in outdoor housing (120 volt)	3
RPH2	Photo control only, in outdoor housing (230 volt)	3
FA1SS1	Solid-state lighting control with 1 circuit flasher and photo control in outdoor housing (120 volt)	20
FA1SS2	Solid-state lighting control panel only (120 volt)	5
FA1SS3	Solid-state lighting control less flasher housing (120 volt)	10
FA1SS4	Solid-state lighting control less photocell (120 volt)	15
A3SSX1	Solid-state lighting control 1 circuit flasher only in outdoor housing (120 volt)	15
A3SSX2	Solid-state lighting control panel only for 1 circuit flasher (120 volt)	5
FA1SS5	Solid-state lighting control with 1 circuit flasher and photo control in outdoor housing (230 volt)	20
FA1SS6	Solid-state lighting control panel only (230 volt)	5
FA1SS7	Solid state lighting control less flasher housing (230 volt)	10
FA1SS8	Solid-state lighting control less photocell (230 volt)	15
A3SSX5	Solid-state lighting control 1 circuit flasher only in outdoor housing (230 volt)	15
A3SSX6	Solid-state lighting control panel only for 1 circuit flasher (230 volt)	5
**FA2SS1	Solid-state lighting control with 2 circuit alternating flasher and photo control in outdoor housing (120 volt)	21
FA2SS2	Solid-state lighting control panel only (120 volt)	6
FA2SS3	Solid-state lighting control less flasher housing (120 volt)	11
FA2SS4	Solid-state lighting control less photocell (120 volt)	16
A5SSX9	Solid-state lighting control 2 circuit alternating flasher only in outdoor housing (120 volt)	16
FA2SS5	Solid-state lighting control with 2 circuit alternating flasher and photo control in outdoor housing (230 volt)	21
FA2SS6	Solid-state lighting control panel only (230 volt)	6
FA2SS7	Solid-state lighting control less flasher housing (230 volt)	11
FA2SS8	Solid-state lighting control less photocell (230 volt)	16
FA2SS9	Solid-state lighting control with 2 circuit synchronizing flasher and photo control in outdoor housing (120 volt)	21
FA2SS10	Solid-state lighting control with 2 circuit synchronizing flasher and photo control in outdoor housing (230 volt)	21
A5SSX1	Solid-state lighting control 2 circuit synchronizing flasher only in outdoor housing (120 volt)	16
A5SSX2	Solid-state lighting control panel only for 2 circuit synchronizing flasher (120 volt)	6
A5SSX5	Solid-state lighting control 2 circuit synchronizing flasher only in outdoor housing (230 volt)	16
A5SSX6	Solid-state lighting control panel only for 2 circuit synchronizing flasher (230 volt)	6
A1LCA	Alarm and photo control unit in indoor housing	20
A3LCA	Alarm, 1 circuit flasher, and photo control in indoor housing	20
A5LCA	Alarm, 2 circuit flasher, and photo control in indoor housing	20
*LBRR1200	Load balance resistor, outdoor/indoor housing (1200 watts)	
LBRRKIT	Load balance resistor (same as above) with wire, conduit, reducer, and locknuts to connect tower lighting kit to radio equipment building	
CB1	Conduit breather, 3/4" tap	1/2
JB4C	JB4 junction box with cable support, 3/4" tap	3
JB4TC	JB4 junction box with 4 contact terminal blocks and cable support, 3/4" tap	3
JB7TC	JB7 junction box with 7 contact terminal blocks and cable support, 1" vertical tap, 3/4" horizontal tap	6
B620W	Beacon bulb (3000 hour) - 120 volt (available in case of 24 bulbs)	
OB116W	Obstruction light bulb (8000 hour) - 120 volt (available in case of 120 bulbs)	
B600W	Beacon bulb (1000 hour) - 230 volt (available in case of 24 bulbs)	
OB100W	Obstruction light bulb (2000 hour) - 230 volt (available in case of 120 bulbs)	
WR100	Can of 100' x 1/2" stainless steel wraplock with buckles, keys, and ratchet wrench	3
LRB1	Lightning rod assembly, 7/8" x 6' solid aluminum, with base for 300 MM beacon	6
LR	Lightning rod only, 7/8" x 6' solid aluminum, with nut (Rohn beacon mounting plates drilled to fit this rod)	3
LRC	Lightning rod only, 5/8" x 5' solid copper, nicked tip, with nuts (Rohn beacon mounting plates drilled to fit this rod)	6

*A3SS1
*A3SS5
*A5SS1
*A5SS5

D I S -
C O N -
T I N -
U E D

*Discontinued. Not available as a complete unit. Replacement parts available on special request.

**A LBRR1200 is required with FA2SS1 control where constant line loading is required (on single beacon tower).

Refer to alphabetical/numerical price list for current prices.

TOWER OBSTRUCTION LIGHTING KITS

<u>TOWER HEIGHT</u>	<u>STANDARD KIT PART NUMBER</u>	<u>230V, 50/60 CYCLE KIT PART NUMBER</u>	<u>*SELF-SUPPORTING CONVERSION KIT PART NUMBER</u>
<u>EXPOSED WIRE</u>			
to 150'	RA1E	RA1EE	---
151' to 350'	FA1E	FA1EE	**FAKIT (1 req'd.)
<u>CONDUIT</u>			
to 150'	RA1C	RA1CE	---
151' to 350'	FA1C	FA1CE	**FAKIT (1 req'd.)
351' to 500'	FA2C1	FA2C1E	**FAKIT (2 req'd.)
501' to 700'	FA2C2	FA2C2E	---
701' to 1050'	FA3C	--	---
<u>ALARM</u>			
to 150'	RA1CM	--	---
151' to 350'	FA1CM	--	**FAKIT (1 req'd.)
351' to 500'	FA2C1M	--	**FAKIT (2 req'd.)
501' to 700'	FA2C2M	--	---

All kits include photo control, necessary wire, fittings, junction boxes, lights, spare bulbs, and flasher (where required) in outdoor housing, except alarm kits. Alarm kits include indoor control with remote photocell. See drawings and parts lists for details.

- NOTES:
- 1) Above kits are per FAA Advisory Circular 70/7460-1G, dated 10/22/85.
 - 2) Prices are available on request for special kits for towers over 1050', High and Medium Intensity Strobe Lighting Kits, and I.C.A.O. Lighting Kits.
 - 3) Lamp life on 230 volt kits is very short.

*In addition to a standard kit, order a conversion kit for each OB light level where tower face width is more than 7'. The material in the conversion kit is sufficient to run from inside corner ladder to face. (See ** below.)

**Conversion kit part number is determined by face width at OB light level rounded up to the nearest 5'. (For example, if tower face width is 13' 4" at OB light level, order part number FAKIT15.)

Refer to alphabetical/numerical price list for current prices.

REPLACEMENT PARTS FOR OBSTRUCTION LIGHTING

PART NUMBER

OB1 & OB2 OBSTRUCTION LIGHTS (Drawing No. C620701/C621306)

530230	OB red lens (AP35222R)
OBG1	Gasket
OBR	OB retainer ring
OBL	OB latch
50714	OB bulb receptacle

B1 BEACON* (Drawing No. D770040)

711130	Red filter screens (AP3524) - 2 required per beacon
547870	Upper beacon lens, clear
547770	Center beacon lens, clear
547020	Lower beacon lens, clear - 2 required per beacon
BGS	Set of 9 beacon gaskets
BGT1	Gasket (1 per beacon)
BGT2	Gasket (3 per beacon)
BGM1	Gasket (1 per beacon)
BGB1	Gasket (4 per beacon)
ZR1	Upper "Z" ring (between 547870 & 547770)
ZR2	Lower "Z" ring (between 547020 & 547020)
23X546	Beacon bulb receptacle
WBS	Beacon high temperature wiring (inside) - complete set

B1R BEACON (Drawing No. D770040)

AP3557	Upper beacon lens, red
AP3556	Center beacon lens, red
AP3555	Lower beacon lens, red - 2 required per beacon
BGSR	Set of 5 beacon gaskets
BGT1	Gasket (1 per beacon)
BGT2	Gasket (1 per beacon)
BGM1	Gasket (1 per beacon)
BGB1	Gasket (2 per beacon)
23X546	Beacon bulb receptacle
WBS	Beacon high temperature wiring (inside) - complete set

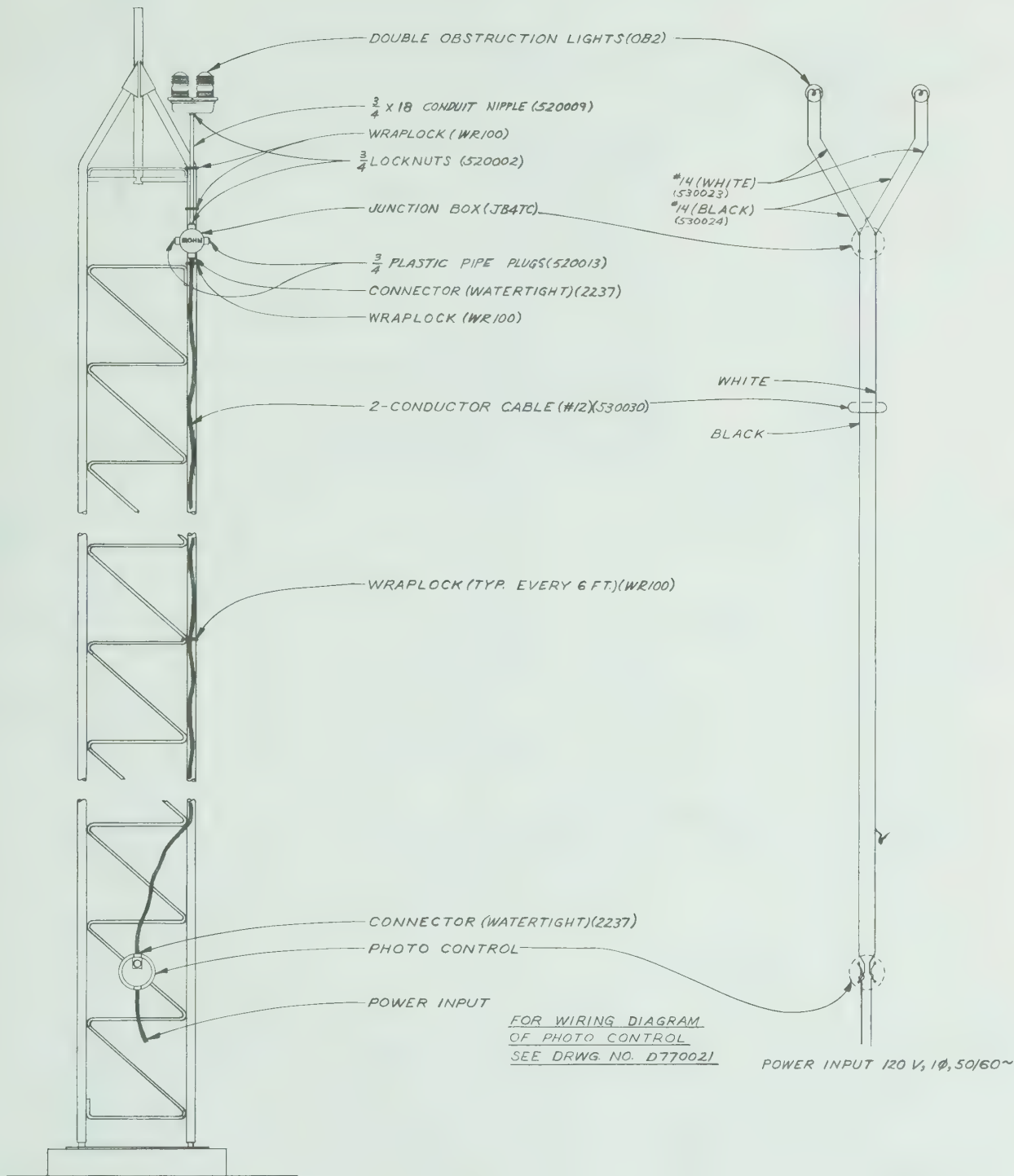
MISCELLANEOUS

2237	Water tight connector for 2 conductor (2/#12) - UF cable
2534	Water tight connector for 2/#14 SO
2535	Water tight connector for 3 conductor (1/#6, 1/#8, 1/#12)

Note: Replacement castings for B1 and B1R beacons are available upon request.

*Discontinued. Not available as a complete unit.

Refer to alphabetical/numerical price list for current prices.



MATERIAL LAYOUT

WIRING DIAGRAM

LIGHTING KIT-EXPOSED WIRE- RAIE

TOWER HEIGHTS UP TO 150'

FAA-#A-1

NOTES:

ALL CONNECTORS SHOULD BE COMPLETELY TIGHT.

PHOTO CONTROL SHOULD FACE NORTHERN SKY.

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

DRAWN L. HOFFMAN	CUSTOMER	TITLE
CHECKED RJP		INSTALLATION DETAILS NO. RAIE LIGHTING KIT
APPROVED DAK		DRAWING NO.
DATE APR. 3, 1962	ROHN [®] MANUFACTURING	C 620403R ₈
SCALE NONE	DIVISION OF	

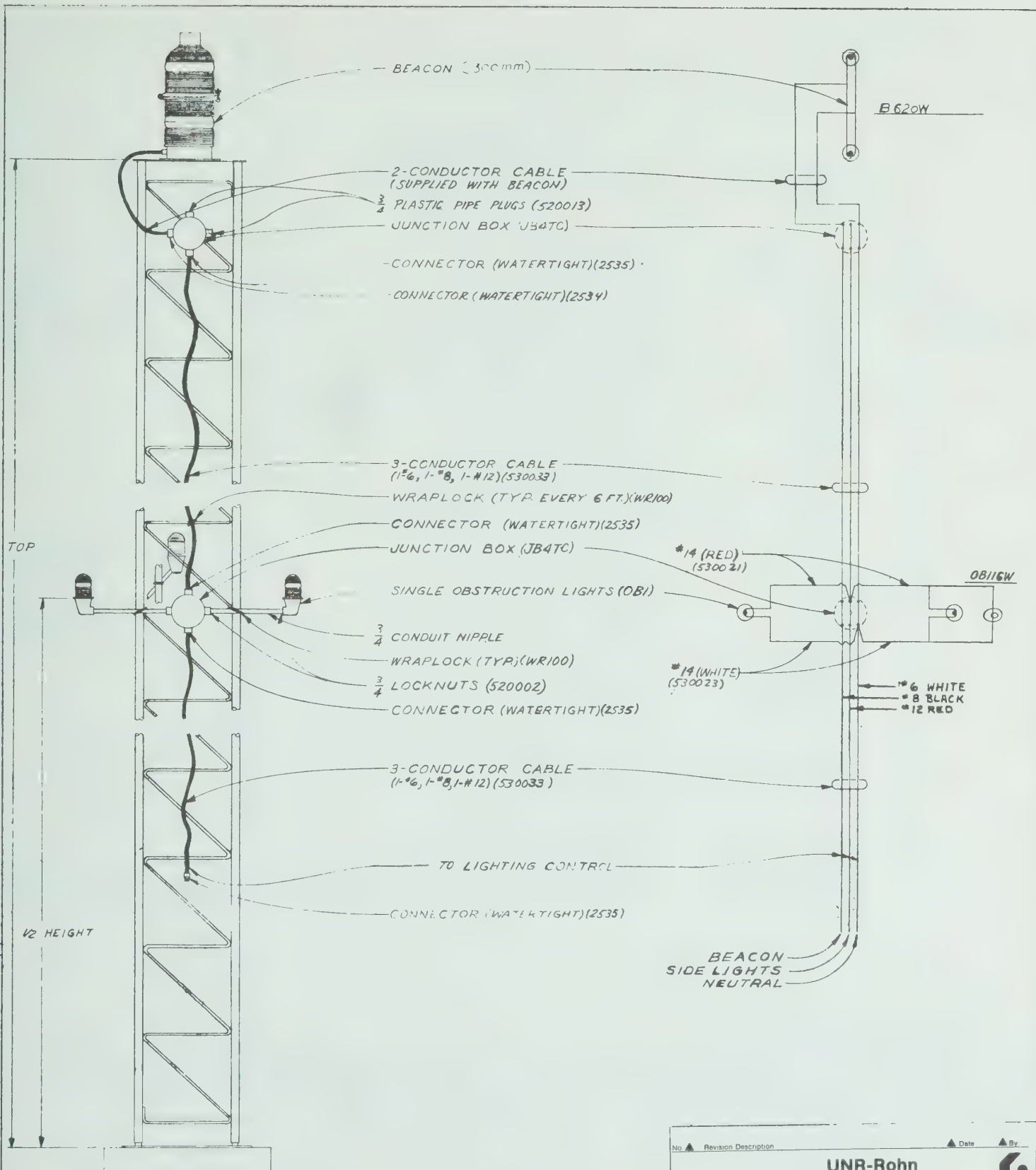
RALE LIGHTING KIT

To 150' w/exposed wire
120 volt AC

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
1	OB2	Double obstruction light
2	OBl16W	Obstruction light bulbs (120 volt)
1	JB4TC	Junction box
2	2237	Water tight connectors
1	520009	Conduit nipple 3/4" x 18"
2	520013	Plastic pipe plugs 3/4"
2	520002	Conduit lock nuts 3/4"
1	WR100	Can stainless steel wraplock (1/2" x 100')
1	520023	Can joint compound
1	RPH1	Photo-electric control (120 volt)
10'	530024	#14 wire (black)
10'	530023	#14 wire (white)
-	530030	2 conductor #12 cable (tower height plus 5')
1	OBLITECAT	Obstruction lighting catalog

For guyed or self-supporting tower.

See Drawing No. C-620403-R2 for installation data.



TOWER HEIGHTS 151' - 350'

FAA - #A1

NOTE:

ALL CONNECTORS SHOULD BE COMPLETELY TIGHT.

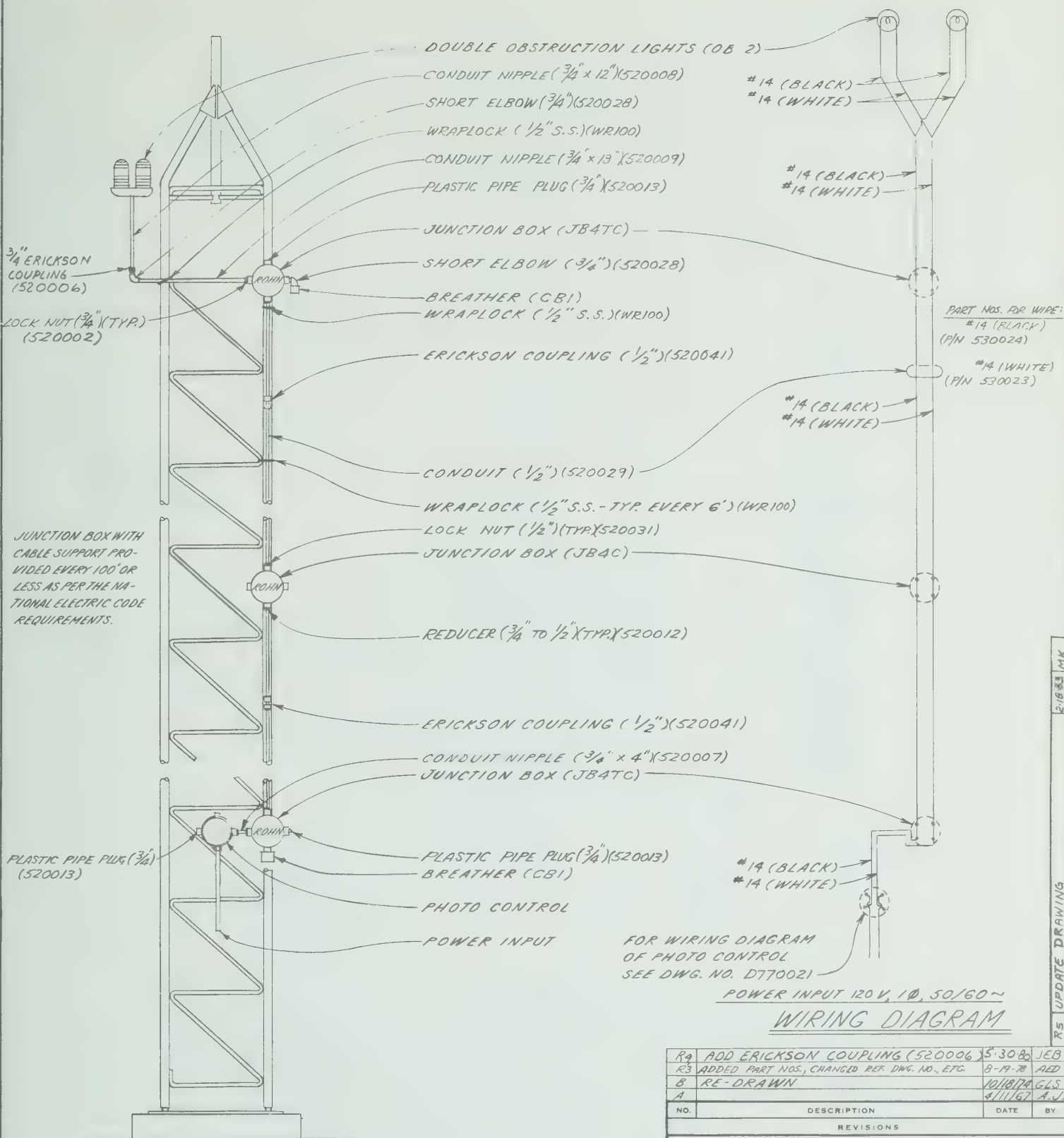
No.	Revision	Description	Date	By
UNR-Rohn				
6				
Title				
LIGHTING KIT-EXPOSED WIRE-FA IE				
Scale			Unless otherwise specified, dimensions are given in inches.	
Tolerances			Decimals Fractions Angles	
Drawn by			Date	
FHT			7-8-86	
Checked by			Date	
DC			7-29-86	
Approved by Engineering			Date	
TS			7-29-86	
Approved by Production			Date	
Approved by Sales			Date	
M2			7-29-86	
Drawing Number			C860568	

FALE LIGHTING KIT

151' to 350' w/exposed wire
120 volt AC

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
3	OBl	Single obstruction lights
2	JB4TC	Junction boxes
2	520006	Erickson couplings 3/4"
2	520013	Plastic pipe plugs 3/4"
1	TB27A	TB conduit, cover, and gasket 3/4"
4	520002	Conduit lock nuts 3/4"
8	520062	Pipe couplings 3/4"
1	2534	Water tight connector
4	2535	Water tight connectors
1	WR100	Can stainless steel wraplock (1/2" x 100')
1	520023	Can joint compound
25'	530021	#14 wire (red)
25'	530023	#14 wire (white)
1	520007	Conduit nipple 3/4" x 4"
4	520009	Conduit nipples 3/4" x 18"
4	520010	Conduit nipples 3/4" x 24"
1	KH1665	Nipple 3/4" x 18" with 30° bend
1	OBLITECAT	Obstruction lighting catalog
1	FALSS1	Flasher box w/flasher, remote photocell, and hardware
4	520008	Conduit nipples 3/4" x 12"
1	BlR	Beacon w/red glass
4	B620W	Beacon bulbs (120 volt)
6	OB116W	Obstruction light bulbs (120 volt)
-	530033	3 conductor #6, #8, #12 cable (tower height plus 10')

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.



MATERIAL LAYOUT

TOWER HEIGHTS TO 150'
FAA # A-1

NOTES: 1. ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT.
2. PHOTO CONTROL SHOULD FACE NORTHERN SKY.

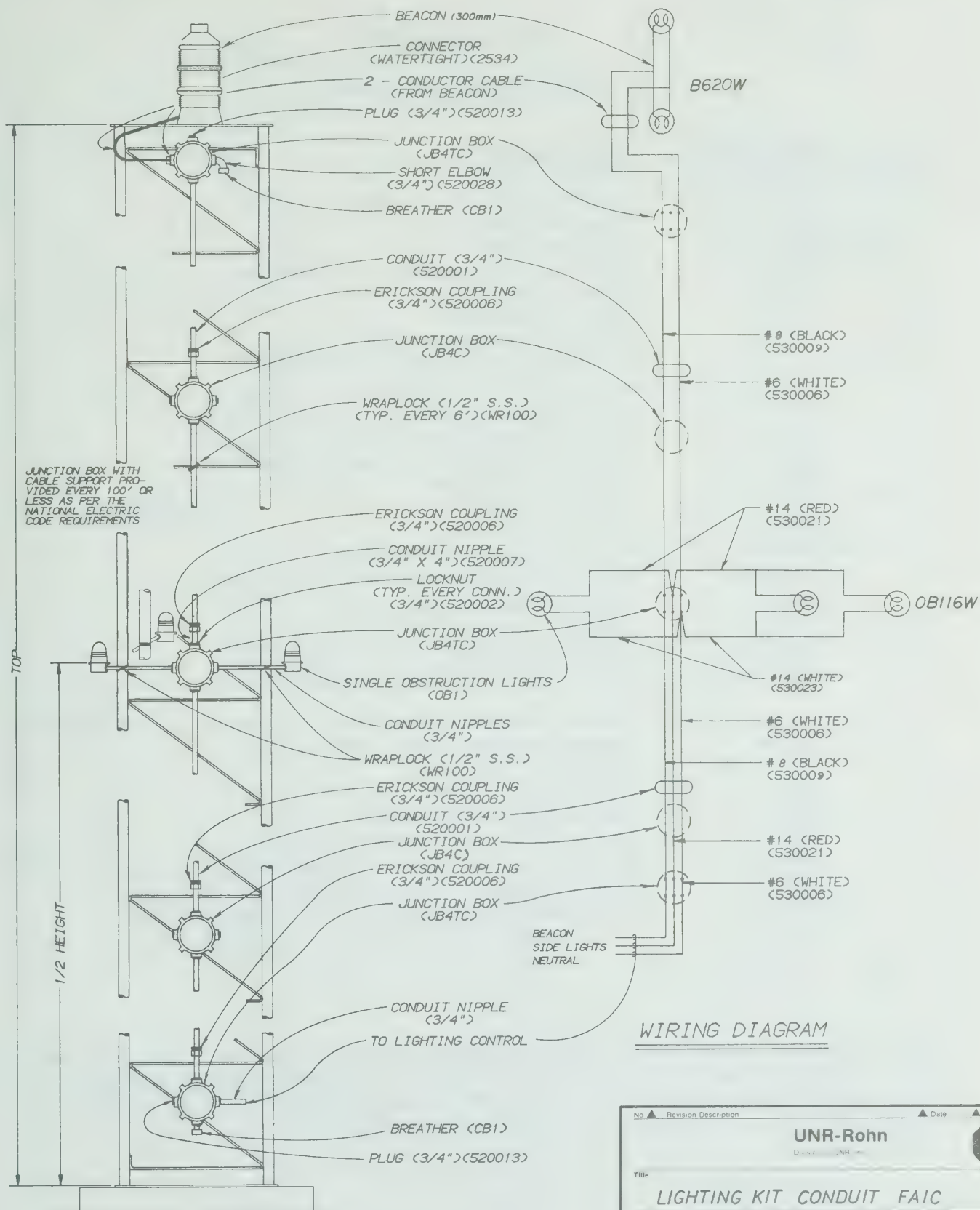
R ₉	ADD ERICKSON COUPLING (520006)	5-30-80	JEB
R ₃	ADDED PART NOS, CHANGED REF. DWG. NO., ETC.	8-19-78	AED
B	RE-DRAWN	10/18/74	GLS
A		4/11/67	A.V.
NO.	DESCRIPTION	DATE	BY
REVISIONS			
ROHN MANUFACTURING <small>DIVISION OF</small> UNARCO			
TITLE			
LIGHTING KIT-CONDUIT-RAIC			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT			FILE NO.
MATERIAL	FINISH	WT	
NONE			
GLS	10/18/74	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES	
OK	11/18/74	DWG. NO.	
OK	11/19/74	C 620506 R ₅	

RA1C LIGHTING KIT

To 150' w/conduit
120 volt AC

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
1	OB2	Double obstruction light
4	OB116W	Obstruction light bulbs (120 volt)
2	JB4TC	Junction boxes
1	JB4C	Junction box
2	520028	Short elbows 3/4"
2	CB1	Conduit breathers
1	520006	Erickson coupling 3/4"
2	520041	Erickson couplings 1/2"
2	520013	Plastic pipe plugs 3/4"
8	520002	Conduit lock nuts 3/4"
4	520031	Conduit lock nuts 1/2"
4	520012	Reducers 3/4" to 1/2"
1	WR100	Can stainless steep wraplock (1/2" x 100')
1	520023	Can joint compound
1	RPH1	Photo-electric control (120 volt)
1	520007	Conduit nipple 3/4" x 4"
1	520008	Conduit nipple 3/4" x 12"
1	520009	Conduit nipple 3/4" x 18"
-	530024	#14 wire (black) (tower height plus 15')
-	530023	#14 wire (white) (tower height plus 15')
-	520029	Rigid galvanized conduit 1/2" (tower height)
1	OBLITECAT	Obstruction lighting catalog

For guyed or self-supporting tower.



MATERIAL LAYOUT

NOTE: ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT.

No.	Revision Description	Date	By
UNR-Rohn DIST. UNR			
LIGHTING KIT CONDUIT FAIC			
Scale	NONE		
Drawn by	GLJ	Date	1-3-86
Checked by	GLJ	Date	2-7-86
Approved by Engineering	TS	Date	2-10-86
Approved by Production	DC	Date	2-7-86
Approved by Sales	MP	Date	2-28-86
Tolerances		Unless otherwise specified, dimensions are given in inches	
Decimals	±	Fractions	±
Material	Finish	Weight	
This drawing is the property of UNR-Rohn. It is not to be reproduced, copied or traced in whole or in part without our written consent.			
File Number			Drawing Number
			C860155

FALC LIGHTING KIT

151' to 350' w/conduit
120 volt AC

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
3	OB1	Single obstruction lights
3	JB4TC	Junction boxes
2	JB4C	Junction boxes
1	2534	Water tight connector
1	520028	Short elbow 3/4"
2	CB1	Conduit breathers
6	520006	Erickson couplings 3/4"
8	520062	Pipe couplings 3/4"
2	520013	Plastic pipe plugs 3/4"
1	TB27A	TB condulet, gasket, and cover 3/4"
17	520002	Conduit lock nuts 3/4"
1	WR100	Can stainless steel wraplock (1/2" x 100')
1	520023	Can joint compound
25'	530021	#14 wire (red)
25'	530023	#14 wire (white)
2	520007	Conduit nipple 3/4" x 4"
-	530021	#14 wire (red) (1/2 tower height plus 15')
5	520009	Conduit nipples 3/4" x 18"
4	520010	Conduit nipples 3/4" x 24"
1	KH1665	Nipples 3/4" x 18" with 30° bend
1	OBLITECAT	Obstruction lighting catalog
1	FALSS1	Flasher box w/flasher, remote photocell, and hardware
5	520008	Conduit nipples 3/4" x 12"
1	B1R	Beacon w/red glass
4	B620W	Beacon bulbs (120 volt)
4	OB116W	Obstruction light bulbs (120 volt)
-	530006	#6 wire (white) (tower height plus 15')
-	530009	#8 wire (black) (tower height plus 15')
-	520001	Rigid galvanized conduit 3/4" (tower height)

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

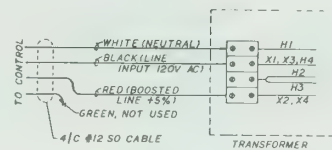
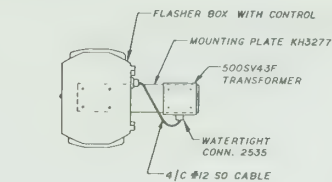
See Drawing No. C860155 for installation data.

FA2C1 LIGHTING KIT

351' to 500' w/conduit
120 volt AC

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
6	OB1	Single obstruction lights
4	JB4C	Junction box
5	JB4TC	Junction boxes
2	2534	Water tight connectors
2	520028	Short elbows 3/4"
3	CB1	Conduit breathers
12	520006	Erickson couplings 3/4"
2	520013	Plastic pipe plugs 3/4"
2	TB27A	TB condulets, covers, and gaskets 3/4"
38	520002	Conduit lock nuts 3/4"
2	WR100	Cans stainless steel wraplock (1/2" x 100')
2	520023	Cans joint compound
50'	530021	#14 wire (red)
50'	530023	#14 wire (white)
5	520007	Conduit nipples 3/4" x 4"
9	520008	Conduit nipples 3/4" x 12"
9	520009	Conduit nipples 3/4" x 18"
8	520010	Conduit nipples 3/4" x 24"
18	520062	Pipe couplers 3/4"
2	520083	Nipples 3/4" x 12" with 30° bend
1	OBLITECAT	Obstruction lighting catalog
1	FA2SS1	Flasher box w/flasher, remote photocell, hardware, and boost transformer
2	BLR	Beacons w/red glass
8	B620W	Beacon bulbs (120 volt)
12	OB116W	Obstruction light bulbs (120 volt)
-	530012	#8 wire (white) (tower height plus 40')
-	530009	#8 wire (black) (tower height plus 40')
-	530017	#12 wire (red) (3/4 tower height plus 30')
-	530018	#12 wire (black) (1/2 tower height plus 20')
-	520001	Rigid galvanized conduit 3/4" (tower height)

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.



TYPICAL TRANSFORMER
WIRING DETAIL



GENERAL NOTES

- 1 ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT.
- 2 USE JUNCTION BOXES AS NUMBERED
- 3 PIPE THREAD COMPOUND IS SUPPLIED AND MUST BE USED ON ALL CONNECTIONS
- 4 3-PIECE COUPLINGS MUST BE INSTALLED AS SHOWN TO BE WATERTIGHT.
- 5 WIRE SIZES BASED ON PROPER CONTROL W/BOOST XFORMER

R		K 10114		K 10114	
K1 FA2C2 WAS 1A2C. MARKED WAS #N		6-2-86		JUN 1986	
N. 1		1		View	
UNR-Rohn					
Title					
LIGHTING KIT - CONDUIT FA2C2					
Size					
NONE		UNITS (change specified dimensions are given in inches)			
Drawn by		Date		Title	
GPH 12/10/86		Date		Title	
Checked by		Date		Title	
MDU 2-7-86		Date		Title	
Approved by		Date		Title	
TS 2-10-86		Date		Title	
Approved by		Date		Title	
QC 2-7-86		Date		Title	
Approved by		Date		Title	
SLS 2-7-86		Date		Title	
Approved by		Date		Title	
JH 2-7-86		Date		Title	
Drawing Number		D860203 R2			

27	ADDED	REMOVED	REV	WIDES	4-16-97	11/10
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D860203 R₃

FA2C2 LIGHTING KIT

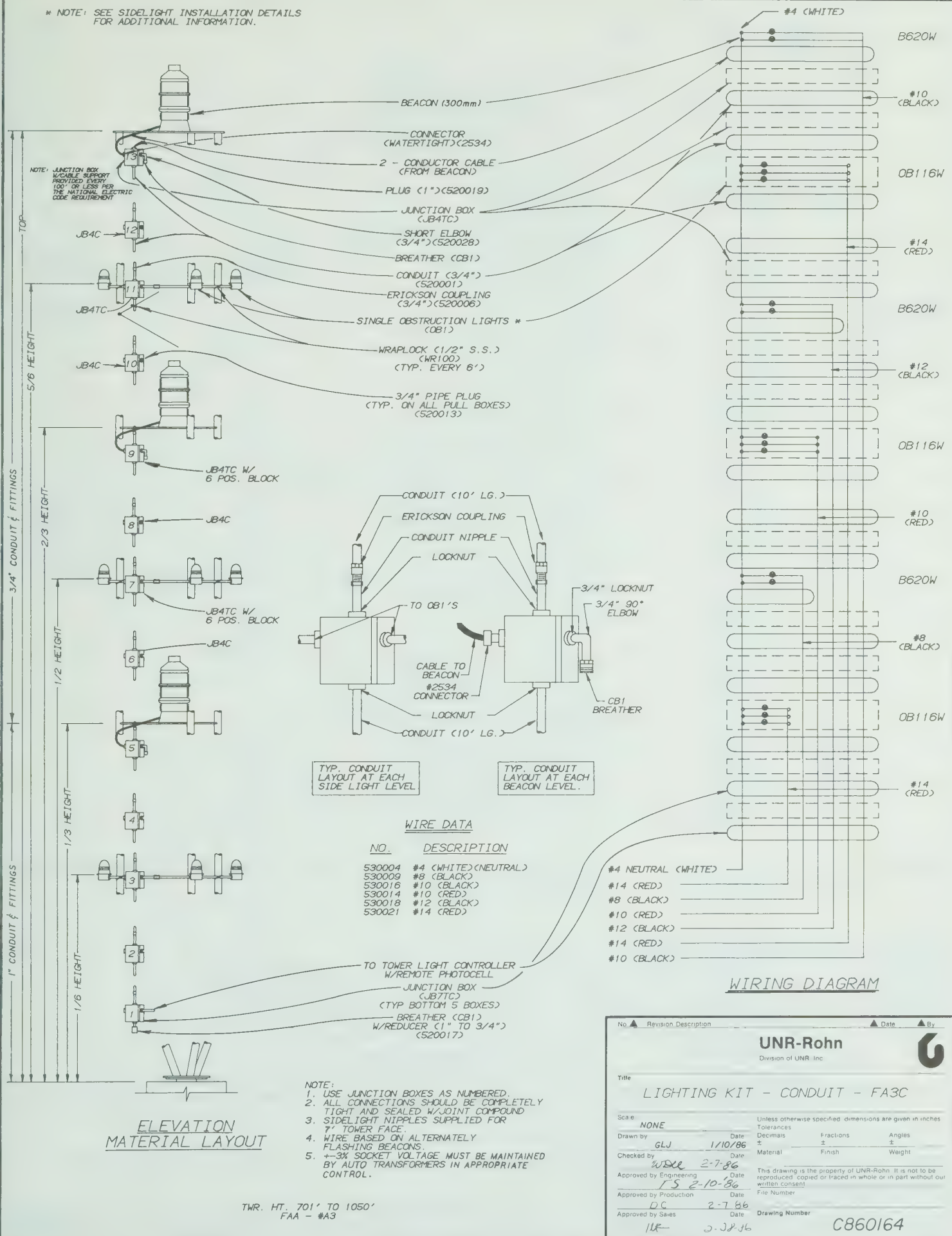
501' to 700' w/conduit
120 volt AC

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
6	OB1	Single obstruction lights
4	JB4C	Junction boxes
5	JB4TC	Junction boxes
2	2534	Water tight connectors
2	520028	Short elbows 3/4"
3	CB1	Conduit breathers
12	520006	Erickson couplings 3/4"
2	520013	Plastic pipe plugs 3/4"
2	TB27A	TB condulets, covers, and gaskets 3/4"
38	520002	Conduit lock nuts 3/4"
2	WR100	Cans stainless steel wraplock (1/2" x 100')
2	520023	Cans joint compound
50'	530021	#14 wire (red)
50'	530023	#14 wire (white)
5	520007	Conduit nipples 3/4" x 4"
9	520008	Conduit nipples 3/4" x 12"
9	520009	Conduit nipples 3/4" x 18"
8	520010	Conduit nipples 3/4" x 24"
18	520062	Pipe couplers 3/4"
2	520083	Nipples 3/4" x 12" with 30° bend
1	OBLITECAT	Obstruction lighting catalog
1	FA2SS1	Flasher box w/flasher, remote photocell, hardware, and boost transformer
2	B1R	Beacons w/red glass
8	B620W	Beacon bulbs (120 volt)
12	OB116W	Obstruction light bulbs (120 volt)
-	530006	#6 wire (white) (tower height plus 40')
-	530005	#6 wire (black) (tower height plus 40')
-	530016	#10 wire (black) (1/2 tower height plus 20')
-	530017	#12 wire (red) (3/4 tower height plus 30')
-	520001	Rigid galvanized conduit 3/4" (tower height)

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

See Drawing D860203R3 for installation data.

* NOTE: SEE SIDELIGHT INSTALLATION DETAILS FOR ADDITIONAL INFORMATION.



- NOTE:
1. USE JUNCTION BOXES AS NUMBERED.
 2. ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT AND SEALED W/JOINT COMPOUND
 3. SIDELIGHT NIPPLES SUPPLIED FOR 7' TOWER FACE.
 4. WIRE BASED ON ALTERNATELY FLASHING BEACONS.
 5. +3% SOCKET VOLTAGE MUST BE MAINTAINED BY AUTO TRANSFORMERS IN APPROPRIATE CONTROL.

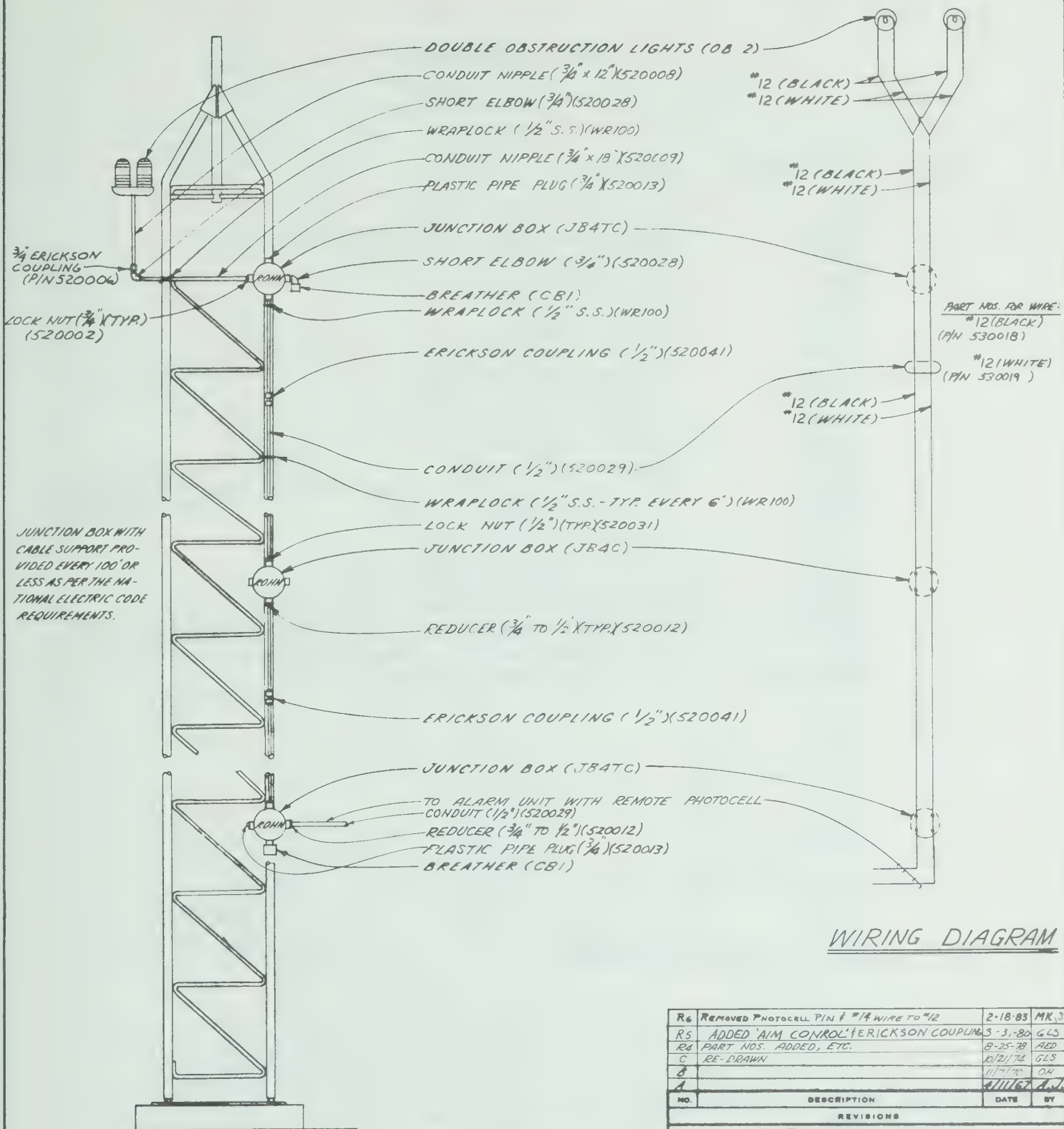
TWR. HT. 701' TO 1050'
FAA - #A3

FA3C LIGHTING KIT

701' to 1050' w/conduit
120 volt AC

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
9	OB1	Single obstruction lights
4	JB4C	Junction boxes
7	JB4TC	Junction boxes
5	JB7TC	Junction boxes
9	2534	Water tight connectors
3	520028	Short elbows 3/4"
4	CB1	Conduit breathers
14	520006	Erickson couplings 3/4"
4	520016	Erickson couplings 1"
7	520013	Plastic pipe plugs 3/4"
1	520019	Plastic pipe plugs 1"
3	TB27A	TB condulets, covers, and gaskets 3/4"
1	LB37A	TB condulet, cover, and gasket 1"
2	520017	Reducer 1" to 3/4"
49	520002	Conduit lock nuts 3/4"
8	520015	Conduit lock nuts 1"
4	WR100	Cans stainless steel wraplock (1/2" x 100')
4	520023	Cans joint compound
60'	530021	#14 wire (red)
60'	530023	#14 wire (white)
8	520007	Conduit nipples 3/4" x 4"
12	520008	Conduit nipples 3/4" x 12"
12	520009	Conduit nipples 3/4" x 18"
12	520010	Conduit nipples 3/4" x 24"
24	520062	Pipe couplers 3/4"
2	510003	Terminal blocks
3	KH1665	Nipples 3/4" x 18" with 30° bend
3	KH1527	Cable, 14-2 solid, 10' long
1	OBLITECAT	Obstruction lighting catalog
1	FA3SS1XFM	Flasher box w/flasher, remote photocell, and transformers
1	1X4NIP	Conduit nipple 1" x 4"
3	B1R	Beacons w/red glass
12	B620W	Beacon bulbs (120 volt)
18	OB116W	Obstruction light bulbs (120 volt)
-	530004	#4 wire (white) (tower height plus 70')
-	530009	#8 wire (black) (1/3 tower height plus 40')
-	530014	#10 wire (red) (1/2 tower height plus 50')
-	530016	#10 wire (black) (tower height plus 70')
-	530018	#12 wire (black) (2/3 tower height plus 60')
-	530021	#14 wire (red) (5/6 and 1/6 tower height plus 120')
-	520014	Rigid galvanized conduit 1" (1/3 tower height plus 20')
-	520001	Rigid galvanized conduit 3/4" (2/3 tower height)
10'	520029	Rigid galvanized conduit 1/2" (for remote photocell)

See Drawing No. C860164 for installation data.



WIRING DIAGRAM

MATERIAL LAYOUT

TOWER HEIGHTS TO 150'
FAA # A-1

R6	REMOVED PHOTOCELL PIN & #14 WIRE TO #12	2-18-83	MRJ
R5	ADDED 'A/M CONTROL' ERICKSON COUPLING	3-31-80	GLS
RA	PART NOS. ADDED, ETC.	8-25-78	AED
C	RE-DRAWN	10/21/74	GLS
B		11/7/70	OH
A		4/11/67	AL

NO.	DESCRIPTION	DATE	BY
-----	-------------	------	----

NO.	DESCRIPTION	DATE	BY
-----	-------------	------	----

ROHN MANUFACTURING

DIVISION OF

LIGHTING KIT-CONDUIT-RA-1CM

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

FILE NO.

DATE

BY

REVISIONS

REVISIONS

REVISIONS

REVISIONS

NOTES: 2. PHOTO CONTROL SHOULD FACE NORTHERN SKY.
1. ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT.

C630826 R6

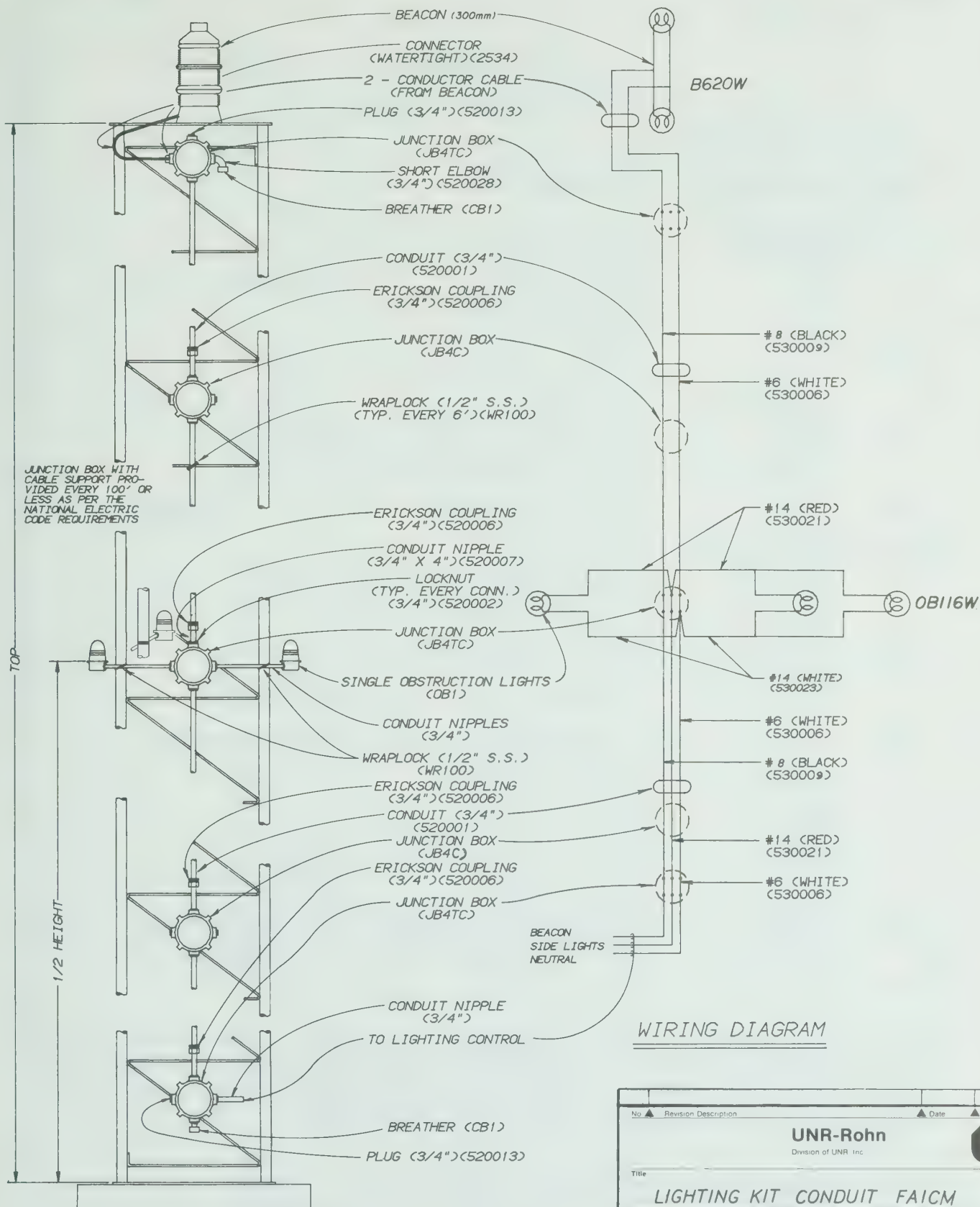
RA1CM LIGHTING KIT

To 150' w/conduit

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
1	OB2	Double obstruction light
4	OB116W	Obstruction light bulbs (120 volt)
2	JB4TC	Junction boxes
1	JB4C	Junction box
2	520028	Short elbows 3/4"
2	CB1	Conduit breathers
1	520006	Erickson coupling 3/4"
2	520041	Erickson couplings 1/2"
2	520013	Plastic pipe plugs 3/4"
8	520002	Conduit lock nuts 3/4"
6	520031	Conduit lock nuts 1/2"
5	520012	Reducers 3/4" to 1/2"
1	WR100	Can stainless steel wraplock (1/2" x 100')
1	520023	Can joint compound
1	520008	Conduit nipple 3/4" x 12"
1	520009	Conduit nipple 3/4" x 18"
-	530018	#12 wire (black) (tower height plus 30')
-	530019	#12 wire (white) (tower height plus 30')
-	520029	Rigid galvanized conduit 1/2" (tower height plus 20')
1	AIMG	Indoor alarm control w/remote photocell
1	OBLITECAT	Obstruction lighting catalog

For guyed or self-supporting tower.

See Drawing No. C-630826-R6 for installation data.



MATERIAL LAYOUT

TWR. HT. 150' TO 350'
FAA - #A1

NOTE: ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT.

WIRING DIAGRAM

No.	Revision Description	Date	By
UNR-Rohn Division of UNR Inc.			
Title LIGHTING KIT CONDUIT FAICM			
Scale NONE			
Unless otherwise specified, dimensions are given in inches			
Drawn by GLJ	Date 1-3-86	Tolerances Decimals ±	Angles ±
Checked by WDM	Date 2-7-86	Material ±	Finish ±
Approved by Engineering TS	Date 2-10-86	This drawing is the property of UNR-Rohn. It is not to be reproduced, copied or traced in whole or in part without our written consent.	
Approved by Production DC	Date 6-18-86	File Number	
Approved by Sales MR	Date 2-28-86	Drawing Number C860486	

FALCM LIGHTING KIT

151' to 350' w/conduit

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
3	OB1	Single obstruction lights
3	JB4TC	Junction boxes
2	JB4C	Junction boxes
1	2534	Water tight connector
1	520028	Short elbow 3/4"
2	CB1	Conduit breathers
6	520006	Erickson couplings 3/4"
8	520062	Pipe couplings 3/4"
2	520013	Plastic pipe plugs 3/4"
1	TB27A	TB conduit, gasket, and cover 3/4"
17	520002	Conduit lock nuts 3/4"
1	WR100	Can stainless steel wraplock (1/2" x 100')
1	520023	Can joint compound
25'	530021	#14 wire (red)
25'	530023	#14 wire (white)
2	520007	Conduit nipple 3/4" x 4"
-	530021	#14 wire (red) (1/2 tower height plus 15')
4	520009	Conduit nipples 3/4" x 18"
4	520010	Conduit nipples 3/4" x 24"
1	KH1665	Nipples 3/4" x 18" with 30° bend
1	OBLITECAT	Obstruction lighting catalog
1	A3LCA	Indoor alarm control with remote photocell
4	520008	Conduit nipples 3/4" x 12"
1	B1R	Beacon w/red glass
4	B620W	Beacon bulbs (120 volt)
6	OB116W	Obstruction light bulbs (120 volt)
-	530006	#6 wire (white) (tower height plus 30')
-	530009	#8 wire (black) (tower height plus 30')
-	520001	Rigid galvanized conduit 3/4" (tower height plus 10')
10'	520029	Rigid galvanized conduit 1/2" (for remote photocell)

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

NOTE: #6 black wire (530005) replaces #8 black wire (530009) if tower height exceeds 300'. Kit, as shown, will accommodate a 7' tower face.

See Drawing No. C860486 for installation data.

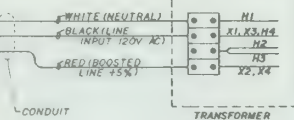
TS CONDUIT WITH COVER AND GASKET (3/4")
(S20003, S20004 AND S20005)

3/4" X 12' ELBOW W/ 1/4" X 1/4" DIA S20083
ERIKSSON COUPLING (3/4") (S20006)

JUNCTION BOX (JB4TC)

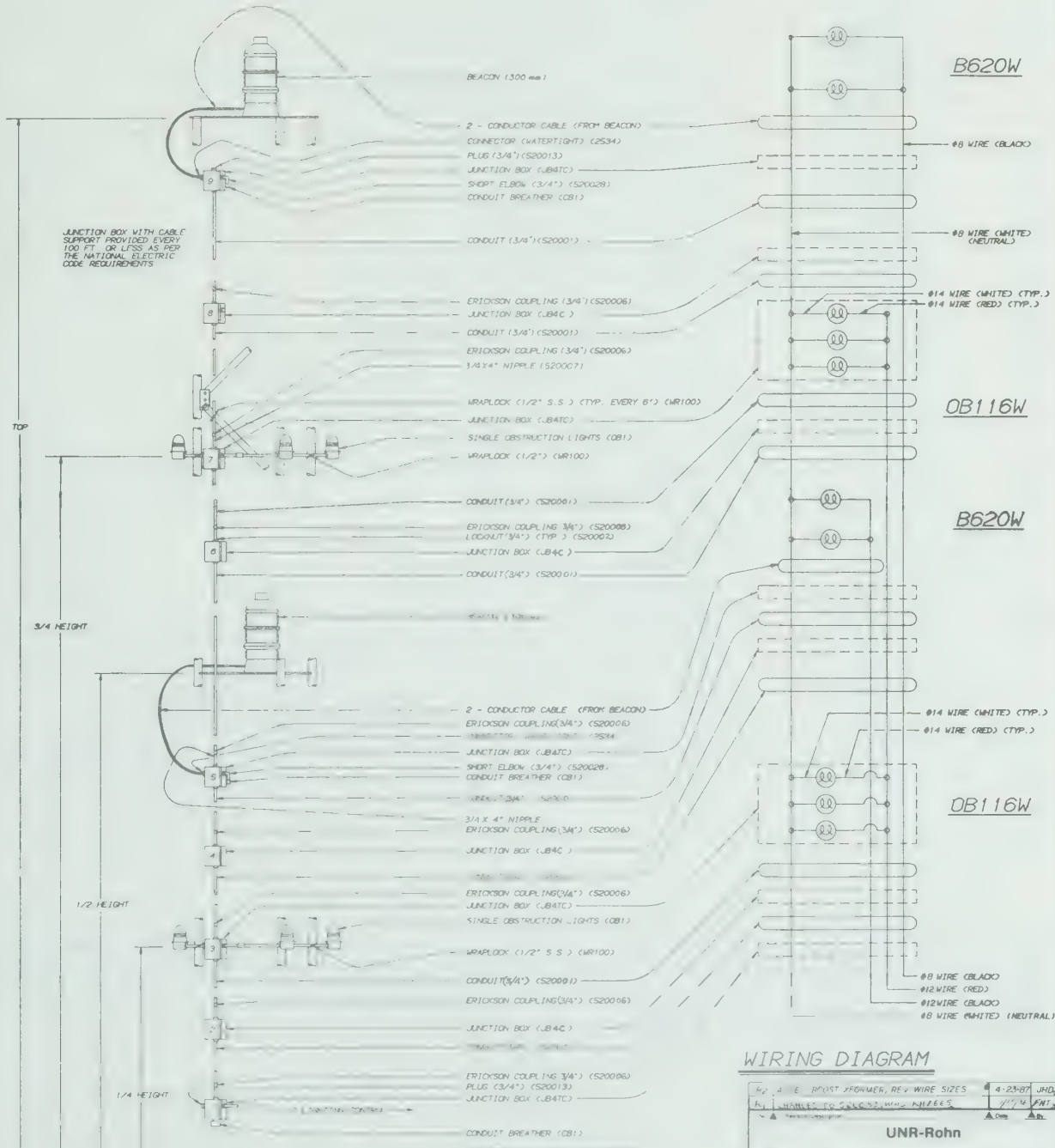
ERIKSSON COUPLING (3/4") (S20006)

TO TOWER LIGHT
CONDUIT



**TYPICAL TRANSFORMER
WIRING DETAIL**
BOOST TRANSFORMER MAY BE MOUNTED INSIDE
EQUIPMENT SHELTER BLDG.

PLAN VIEW



TOP

3/4 HEIGHT

1/2 HEIGHT

1/4 HEIGHT

TWR. HT. 351'-500'
FAA - #A2

GENERAL NOTES

- ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT. USE JUNCTION BOXES AS NUMBERED.
- PIPE THREAD COMPOUND IS SUPPLIED AND MUST BE USED ON ALL CONNECTIONS.
- 3-PIECE COUPLINGS MUST BE INSTALLED AS SHOWN TO BE WATERTIGHT.
- WIRE SIZES BASED ON PROPER CONTROL W/BOOST XFORMER.

WIRING DIAGRAM

4-25-87 JHD	
UNR-ROHN	
LIGHTING KIT - CONDUIT FA2C/M	
Scale	NONE
Drawn by	DATE
Checked by	DATE
Approved by Engineering	DATE
Approved by Production	DATE
Approved by Sales	DATE
Drawn by	DATE
D860240 R2	

FA2C1M LIGHTING KIT

351' to 500' w/conduit

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
6	OBl	Single obstruction lights
4	JB4C	Junction box
5	JB4TC	Junction boxes
2	2534	Water tight connectors
2	520028	Short elbows 3/4"
3	CBl	Conduit breathers
12	520006	Erickson couplings 3/4"
2	520013	Plastic pipe plugs 3/4"
2	TB27A	TB condulets, covers, and gaskets 3/4"
38	520002	Conduit lock nuts 3/4"
2	WR100	Cans stainless steel wraplock (1/2" x 100')
2	520023	Cans joint compound
50'	530021	#14 wire (red)
50'	530023	#14 wire (white)
5	520007	Conduit nipples 3/4" x 4"
8	520008	Conduit nipples 3/4" x 12"
8	520009	Conduit nipples 3/4" x 18"
8	520010	Conduit nipples 3/4" x 24"
18	520062	Pipe couplers 3/4"
2	520083	Nipples 3/4" x 12" with 30° bend
1	OBLITECAT	Obstruction lighting catalog
1	A5LCA	Indoor alarm control with remote photocell
1	FA2CMXFM	Boost transformer
2	B1R	Beacons w/red glass
8	B620W	Beacon bulbs (120 volt)
12	OBl16W	Obstruction light bulbs (120 volt)
-	530012	#8 wire (white) (tower height plus 60')
-	530009	#8 wire (black) (tower height plus 60')
-	530017	#12 wire (red) (3/4 tower height plus 50')
-	530018	#12 wire (black) (1/2 tower height plus 40')
-	520001	Rigid galvanized conduit 3/4" (tower height plus 10')
10'	520029	Rigid galvanized conduit 1/2" (for remote photocell)

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

See Drawing D860240R2 for installation data.

R2	ADDED BOOST XFORMER, REV WIRE SIZES	Q 29-87	JHD
R1	WINDUP 1	1/2 in	R
NO.	Partwork Description	A Date	Alt

UNR-Rohn

FILE

LIGHTING KIT - CONDUIT FA2C2M

Scale	NONE			Unless otherwise specified, dimensions are given in inches		
Drawn by	FMT	Date	5/24	File No.	Projections	Angles
Checked by	JHD	Date	5/24/86	Material	1" pipe	—
Approved by Engineering	JC	Date	5-20-86	This drawing is the property of UNR Rohn, Inc. It is not to be used in any way without the express written consent of UNR Rohn, Inc.		
Approved by Fieldwork	CC	Date	6-7-86	Number	—	—
Approved by Sales	FM	Date	6-3-86	Drawing Station	—	—

D86238 R2

FA2C2M LIGHTING KIT
501' to 700' w/conduit

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
6	OB1	Single obstruction lights
4	JB4C	Junction boxes
5	JB4TC	Junction boxes
2	2534	Water tight connectors
2	520028	Short elbows 3/4"
3	CB1	Conduit breathers
12	520006	Erickson couplings 3/4"
2	520013	Plastic pipe plugs 3/4"
2	TB27A	TB condulets, covers, and gaskets 3/4"
38	520002	Conduit lock nuts 3/4"
2	WR100	Cans stainless steel wraplock (1/2" x 100')
2	520023	Cans joint compound
50'	530021	#14 wire (red)
50'	530023	#14 wire (white)
5	520007	Conduit nipples 3/4" x 4"
8	520008	Conduit nipples 3/4" x 12"
8	520009	Conduit nipples 3/4" x 18"
8	520010	Conduit nipples 3/4" x 24"
18	520062	Pipe couplers 3/4"
2	520083	Nipples 3/4" x 12" with 30° bend
1	OBLITECAT	Obstruction lighting catalog
1	A5LCA	Indoor alarm control with remote photocell
1	FA2CMXFM	Boost transformer
2	B1R	Beacons w/red glass
8	B620W	Beacon bulbs (120 volt)
12	OB116W	Obstruction light bulbs (120 volt)
-	530006	#6 wire (white) (tower height plus 60')
-	530005	#6 wire (black) (tower height plus 60')
-	530016	#10 wire (black) (1/2 tower height plus 40')
-	530017	#12 wire (red) (3/4 tower height plus 50')
-	520001	Rigid galvanized conduit 3/4" (tower height plus 10')
10'	520029	Rigid galvanized conduit 1/2" (for remote photocell)

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

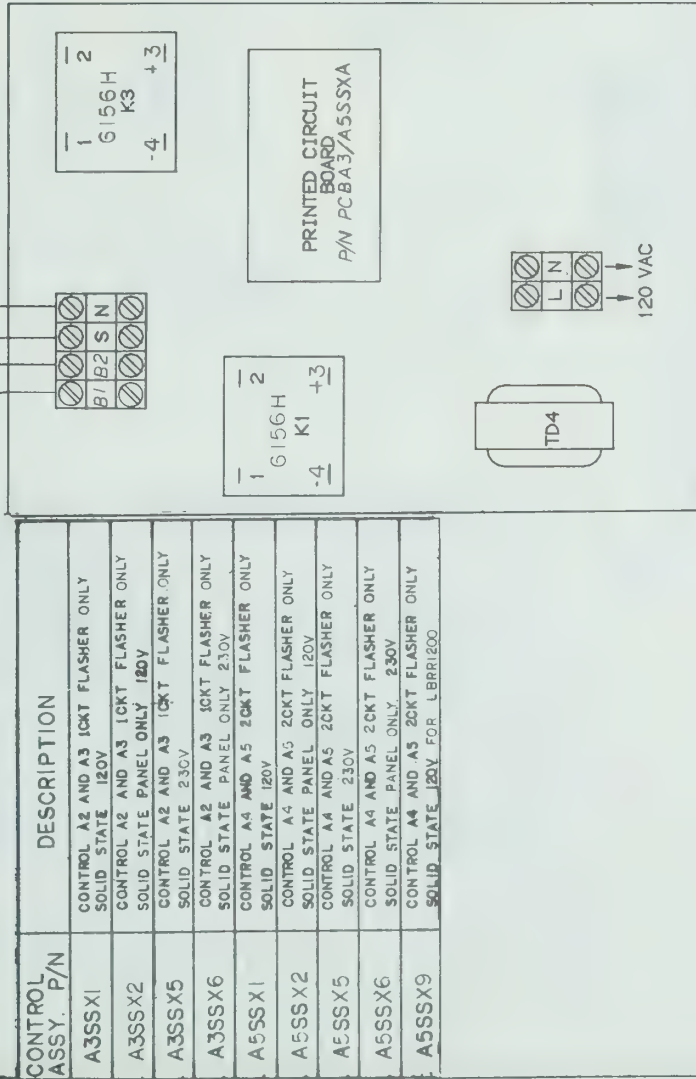
The diagram illustrates the electrical connections for a control assembly. On the left, four input lines are labeled: "SIDELIGHTS", "LOWER BEACON", "UPPER BEACON", and "NEUTRAL". These lines connect to a terminal block with eight terminals. The terminals are labeled as follows: the first two are "B1" and "B2", the next two are "S" and "N", and the last four are "1", "2", "-4", and "+3".

Below the terminal block is a table with two columns: "CONTROL ASSY. P/N" and "DESCRIPTION". The table lists nine control units and their functions:

CONTROL ASSY. P/N	DESCRIPTION
A3SSX1	CONTROL A2 AND A3 1CKT FLASHER ONLY SOLID STATE 120V
A3SSX2	CONTROL A2 AND A3 1CKT FLASHER ONLY SOLID STATE PANEL ONLY 120V
A3SSX5	CONTROL A2 AND A3 1CKT FLASHER ONLY SOLID STATE 230V
A3SSX6	CONTROL A2 AND A3 1CKT FLASHER ONLY SOLID STATE PANEL ONLY 230V
A5SSX1	CONTROL A4 AND A5 2CKT FLASHER ONLY SOLID STATE 120V
A5SSX2	CONTROL A4 AND A5 2CKT FLASHER ONLY SOLID STATE PANEL ONLY 120V
A5SSX5	CONTROL A4 AND A5 2CKT FLASHER ONLY SOLID STATE 230V
A5SSX6	CONTROL A4 AND A5 2CKT FLASHER ONLY SOLID STATE PANEL ONLY 230V
A5SSX9	CONTROL A4 AND A5 2CKT FLASHER ONLY SOLID STATE 120V FOR LBRR1200

At the bottom of the diagram, there is a box labeled "PRINTED CIRCUIT BOARD" with "P/N PCB A3/A5SSXA" below it. To the right of this box is a transformer symbol labeled "TD4" with "120 VAC" and an arrow pointing to it. Further right is a terminal block with four terminals labeled "L", "N", "1", and "2".

SIDELIGHTS
LOWER BEACON -
UPPER BEACON -



ASSXI FEATURES & SPECIFICATIONS

PURPOSE: FLASHER CONTROL FOR STANDARD A-2 AND A-3 LIGHTING TOWERS 151' TO 450' TALL.

SPECIFICATIONS: FLASHER RATE - 28 FPM \pm 3 FPM
POWER INPUT - 108 - 132 VAC (120 VAC NOMINAL)
FLASHER OUTPUT - 1500 WATTS INCANDESCENT
SIDELIGHT OUTPUT - 700 WATTS INCANDESCENT


- 1.) FEATURES: 1.) FLASHER CIRCUIT IS LOW VOLTAGE AND ISOLATED FROM THE POWER LINE.
- 2.) LIGHT EMITTING DIODES INDICATE OPERATION OF EACH SECTION OF CONTROL CIRCUITRY.
- 3.) OPTO-ISOLATED SOLID STATE POWER RELAYS PROVIDED ZERO VOLTAGE SWITCHING, LONGER LAMP LIFE AND REDUCE RFI.
- 4.) TRANSIENT PROTECTION RESPONDS TO UNWANTED DANGEROUS NOISE COMPONENTS IN THE HANDS ON TIME FRAME TRIBUTORS.
- 5.) ALL COMPONENTS ARE IN THE HANDS ON TIME FRAME TRIBUTORS.
- 6.) WILL DIRECTLY REPLACE SSFI AND ASX WITH SAME MOUNTING HOLES.
- 7.) SOLID STATE RELAY WILL NOT SWITCH OFF WITHOUT A MINIMUM LOAD OF 2000 OHMS.

	REFER TO SCHEMATIC DIAGRAM FOR PARTS IDENTIFICATION AND DESCRIPTION
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NOTE: K3 USED ON A5SSX1 THRU A5SSX5 & A5SSX9 ONLY.

22	GLE-0-1	WAS ESTD 10-7-74	ADDED B1	11-7-82	WJR
2	ADDED CONTROL	ASSYS & NOTE 7		10-15-82	AM

No. ▲	Revision Description	▲ Date	▲ By



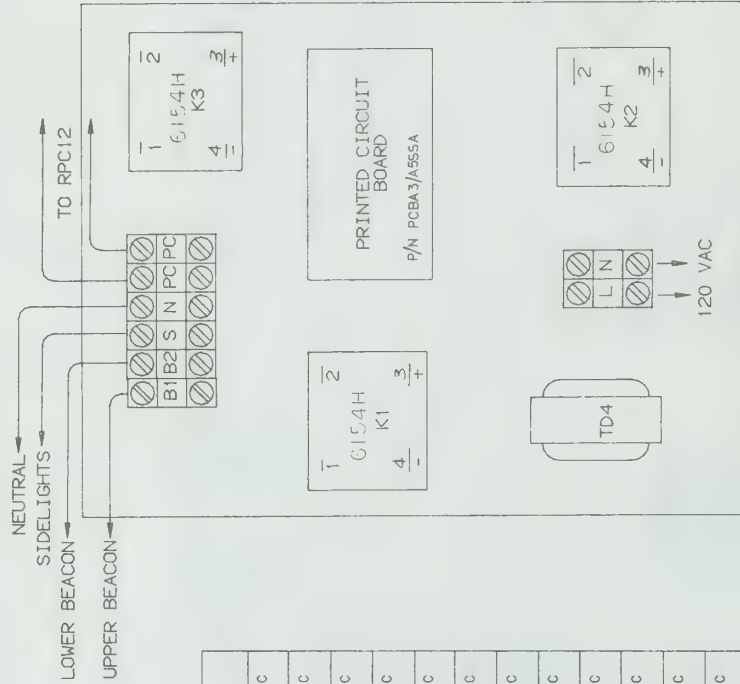
UNR-Rohn
Division of UNR Inc

PICTORIAL DIAGRAM FOR A3SSX/

Scale	Unless otherwise specified, dimensions are given in inches					
Drawn by	KTL	Decimals	Fractions	Ang as	Welds	
Checked by	AM	Meters		Finish		
Approved by Engineering	DAK	Date	9-8-82			
Approved by Production	DL	Date	9/19/82			
Approved by Sales	DL	Date	9-9-82			
		Date	11-8-82			
			WJR			

C821239R

PICTORIAL LAYOUT FOR A3SS1 CONTROL



REFER TO SCHEMATIC DIAGRAM FOR PARTS IDENTIFICATION AND DESCRIPTION

CONTROL ASSY. P/N	DESCRIPTION
A3SS1	CONTROL A2 AND A3 1CKT FLASHER AND PC SOLID STATE 120V
A3SS2	CONTROL A2 AND A3 1CKT FLASHER AND PC SOLID STATE PANEL ONLY 120V
A3SS3	CONTROL A2 AND A3 1CKT FLASHER AND PC SOLID STATE LESS HSG 120V
A3SS4	CONTROL A2 AND A3 1CKT FLASHER AND PC SOLID STATE LESS RPC12 120V
A3SS5	CONTROL A2 AND A3 1CKT FLASHER AND PC SOLID STATE 230V
A3SS6	CONTROL A2 AND A3 1CKT FLASHER AND PC SOLID STATE PANEL ONLY 230V
A3SS7	CONTROL A2 AND A3 1CKT FLASHER AND PC SOLID STATE LESS HSG 230V
A3SS8	CONTROL A2 AND A3 1CKT FLASHER AND PC SOLID STATE LESS RPC12 230V
A5SS1	CONTROL A4 AND A5 2CKT FLASHER AND PC SOLID STATE 120V
A5SS2	CONTROL A4 AND A5 2CKT FLASHER AND PC SOLID STATE PANEL ONLY 120V
A5SS3	CONTROL A4 AND A5 2CKT FLASHER AND PC SOLID STATE LESS HSG 120V
A5SS4	CONTROL A4 AND A5 2CKT FLASHER AND PC SOLID STATE LESS RPC12 120V
A5SS5	CONTROL A4 AND A5 2CKT FLASHER AND PC SOLID STATE 230V
A5SS6	CONTROL A4 AND A5 2CKT FLASHER AND PC SOLID STATE PANEL ONLY 230V
A5SS7	CONTROL A4 AND A5 2CKT FLASHER AND PC SOLID STATE LESS HSG 230V
A5SS8	CONTROL A4 AND A5 2CKT FLASHER AND PC SOLID STATE LESS RPC12 230V
A5SS9	CONTROL A2 AND A3 2CKT FLASHER AND PC SOLID STATE 120V FOR LBRR1200
A5SS10	CONTROL A2 AND A3 2CKT FLASHER AND PC SOLID STATE FOR LBRR-230V

NOTE: K3 USED ON A5SS1 THRU A5SS10 ONLY

A3SSI FEATURES & SPECIFICATIONS

PURPOSE: COMBINATION FLASHER-PHOTO CONTROL FOR STANDARD A-2 AND A-3 LIGHTING FOR TOWERS 151' TO 450' TALL.

SPECIFICATIONS: FLASHER RATE - 28 FPM \pm 3 FPM
POWER INPUT - 100 WATT (120 VAC NOMINAL)
FLASHER OUTPUT - 1500 WATTS INCANDESCENT
SIDELIGHT OUTPUT - 1500 WATTS INCANDESCENT
PHOTOCELL TURN ON - ADJUSTABLE

FEATURES: 1.) FLASHER AND PHOTOCELL CIRCUIT ARE LOW VOLTAGE AND ISOLATED FROM THE POWER LINE.
2.) SCHEMATIC WIRING DIAGRAM INDICATES OPERATION OF EACH COMPONENT.
3.) OPTO-ISOLATED SOLID STATE POWER RELAYS PROVIDE ZERO VOLTAGE SWITCHING, LONGER LAMP LIFE AND REDUCE RFI.
4.) TRANSIENT PROTECTION RESPONDS TO UNWANTED DANGEROUS OVERVOLTAGES IN THE NANSECON SECOND TIME FRAME.
5.) MOST COMPONENTS ARE AVAILABLE AT LOCAL DISTRIBUTORS.
6.) WILL DIRECTLY REPLACE RC23, RC231PC, A3RG, A3R1, C23, A5SSA
7.) SOLID STATE RELAY WILL NOT SWITCH OFF WITHOUT A MINIMUM LOAD OF 2000 OHMS.

R5	6154H WAS 615GH, ADDED A3R1, C23 TO NOTE #6	6-10-84 RKB
R2	6154H & 615GH WERE EDITED TO 74	11-5-82 WDF
R1	ADDED CONTROL A5SS1 & NOTE 7	10-1-82 RKB

No. Δ Revision Description Date Δ By

Unarco-Rohn
Division of Unarco Industries, Inc.

PICTORIAL DIAGRAM FOR A3SS1

Scale: NONE
Drawn by: KTL
Checked by: D.C.
Approved by Engineering: 6-14-82
Approved by Production: 6-14-82
Approved by Sales: 6-14-82

Unless otherwise specified, dimensions are given in inches
Fractions
Decimals
Material
Finish
Angles
Weight

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File Number
Drawing Number
C820880 R3

MUST BE PERFORMED ON ALL A1 LIGHTING CONTROLS WITH ALARM TO INSURE CORRECT PHOTOCELL OPERATION AND CORRECT OPERATION OF THE SIDELIGHT ALARM CIRCUIT.

CALIBRATION REQUIRES THE USE OF AN OHMMETER AND AN ADJUSTING TOOL (ADJUSTING TOOL IS PROVIDED WITH CONTROL).

BEFORE PROCEEDING MAKE SURE THAT ALL SWITCHES ARE IN THEIR FULL DOWN POSITION (NOTE: S1 IS A THREE POSITION SWITCH).

- 1). SLOWLY TURN R1 TO FULL DOWN POSITION
- 2). SLOWLY TURN R1 UNTIL BOTH LED'S ARE LIT (USE ADJUSTING TOOL)
- 3). SLOWLY TURN R1 IN THE OPPOSITE DIRECTION UNTIL BOTH LED'S GO OFF AND THEN STOP TURNING-DO NOT GO BEYOND THIS POINT-CAREFULLY REMOVE ADJUSTING TOOL.
- 4). RETURN S1 TO FULL DOWN POSITION. CALIBRATION COMPLETED.

- 1). CONNECT OHMMETER LEADS ACROSS
ALARM TERMINAL STRIP FROM TERMINAL
#1 TO #6.
- 2). SWITCH S1 TO THE CENTER POSITION
(SIDELIGHTS SHOULD NOW BE LIT).
- 3). SLOWLY TURN R2 WITH ADJUSTING TOOL
UNTIL OHMMETER INDICATES THAT
ALARM RELAY CONTACTS CLOSE.

IF OHMMETER DOES NOT INDICATE CONTACT CLOSURE, REVERSE DIRECTION UNTIL IT DOES.

- 4). SLOWLY TURN R2 IN THE OPPOSITE DIRECTION UNTIL THE OHMMETER INDICATES THAT ALARM RELAY CONTACTS OPEN.
 - 5). DISCONNECT OHMMETER AND RETURN S1 TO THE DOWN POSITION.
- CALIBRATION COMPLETED.

BEGIN TESTING BY SWITCHING S1 TO THE CENTER POSITION, THIS WILL TURN ON ALL TOWER LIGHTS.

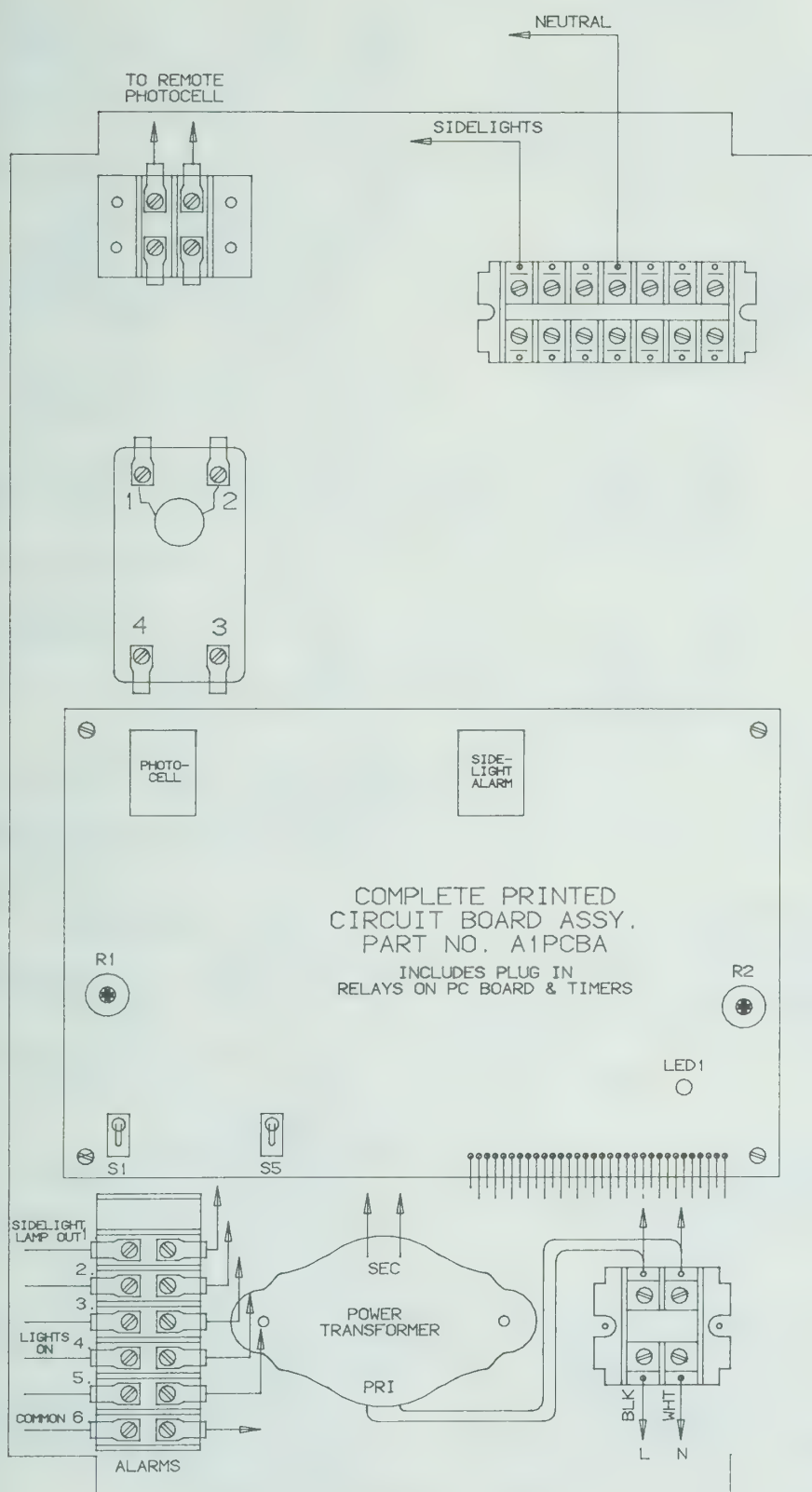
1).CONNECT OHMMETER LEADS ACROSS THE
ALARM TERMINAL BLOCK FROM TERM.
#1 TO #6.

- 2). SWITCH S5 TO THE UP POSITION. THIS SHOULD INDICATE AN ALARM RELAY CONTACT CLOSURE ON THE OHMMETER.
- 3). RETURN S5 TO THE DOWN POSITION. TEST COMPLETED.

- 1).TURN POWER OFF TO THE CONTROL AT THE BREAKER PANEL.
- 2).CONNECT THE OHMMETER TO TERM.#6 THEN TO EACH OF THE OTHER TERMINALS ONE AT A TIME.(EXCEPT #2,#3,#5) AN ALARM RELAY CONTACT CLOSURE SHOULD BE INDICATED ON THE OHMMETER AT EACH TERMINAL.
- 3).TURN THE POWER BACK ON AT THE BREAKER PANEL.

TEST COMPLETED.

RETURN SWITCH S1 TO THE FULL
DOWN POSITION TO RESUME NORMAL
OPERATION OF THE LIGHTING CONTROL.



FIELD CALIBRATION PROCEDURE

MUST BE PERFORMED ON ALL A3 LIGHTING CONTROLS WITH ALARM TO INSURE CORRECT PHOTOCELL OPERATION AND CORRECT OPERATION OF THE SIDELIGHT ALARM CIRCUIT.

CALIBRATION REQUIRES THE USE OF AN OHMMETER AND AN ADJUSTING TOOL (ADJUSTING TOOL IS PROVIDED WITH CONTROL).

BEFORE PROCEEDING MAKE SURE THAT ALL SWITCHES ARE IN THEIR FULL DOWN POSITION (NOTE: S1 IS A THREE POSITION SWITCH).

PHOTOCELL CALIBRATION PROCEDURE

- 1). SWITCH S1 TO FULL UP POSITION
- 2). SLOWLY TURN R1 UNTIL BOTH LED'S ARE LIT. (USE ADJUSTING TOOL)
- 3). SLOWLY TURN R1 IN THE OPPOSITE DIRECTION UNTIL BOTH LED'S GO OFF AND THEN STOP TURNING-DO NOT GO BEYOND THIS POINT-CAREFULLY REMOVE ADJUSTING TOOL.
- 4). RETURN S1 TO FULL DOWN POSITION. CALIBRATION COMPLETED.

SIDELIGHT ALARM CALIBRATION PROCEDURE

- 1). CONNECT OHMMETER LEADS ACROSS ALARM TERMINAL STRIP FROM TERMINAL #1 TO #6.
- 2). SWITCH S1 TO THE CENTER POSITION (SIDELIGHTS SHOULD NOW BE LIT).
- 3). SLOWLY TURN R2 WITH ADJUSTING TOOL UNTIL OHMMETER INDICATES THAT ALARM RELAY CONTACTS CLOSE.

IF OHMMETER DOES NOT INDICATE CONTACT CLOSURE, REVERSE DIRECTION UNTIL IT DOES.

- 4). SLOWLY TURN R2 IN THE OPPOSITE DIRECTION UNTIL THE OHMMETER INDICATES THAT ALARM RELAY CONTACTS OPEN.
- 5). DISCONNECT OHMMETER AND RETURN S1 TO THE DOWN POSITION. CALIBRATION COMPLETED.

FIELD TEST PROCEDURE

BEGIN TESTING BY SWITCHING S1 TO THE CENTER POSITION, THIS WILL TURN ON ALL TOWER LIGHTS.

SIDELIGHT LAMP FAILURE ALARM SIMULATION

- 1). CONNECT OHMMETER LEADS ACROSS THE ALARM TERMINAL BLOCK FROM TERM. #1 TO #6.
- 2). SWITCH S5 TO THE UP POSITION. THIS SHOULD INDICATE AN ALARM RELAY CONTACT CLOSURE ON THE OHMMETER.
- 3). RETURN S5 TO THE DOWN POSITION. TEST COMPLETED.

B1-BEACON LAMP FAILURE ALARM SIMULATION

- 1). CONNECT OHMMETER LEADS ACROSS THE ALARM TERM. BLOCK FROM TERMINAL #3 TO #6.
- 2). SWITCH S2 TO THE UP POSITION. AFTER A FEW SECONDS THE OHMMETER SHOULD INDICATE AN ALARM RELAY CONTACT CLOSURE.
- 3). RETURN S2 TO THE DOWN POSITION. TEST COMPLETED.

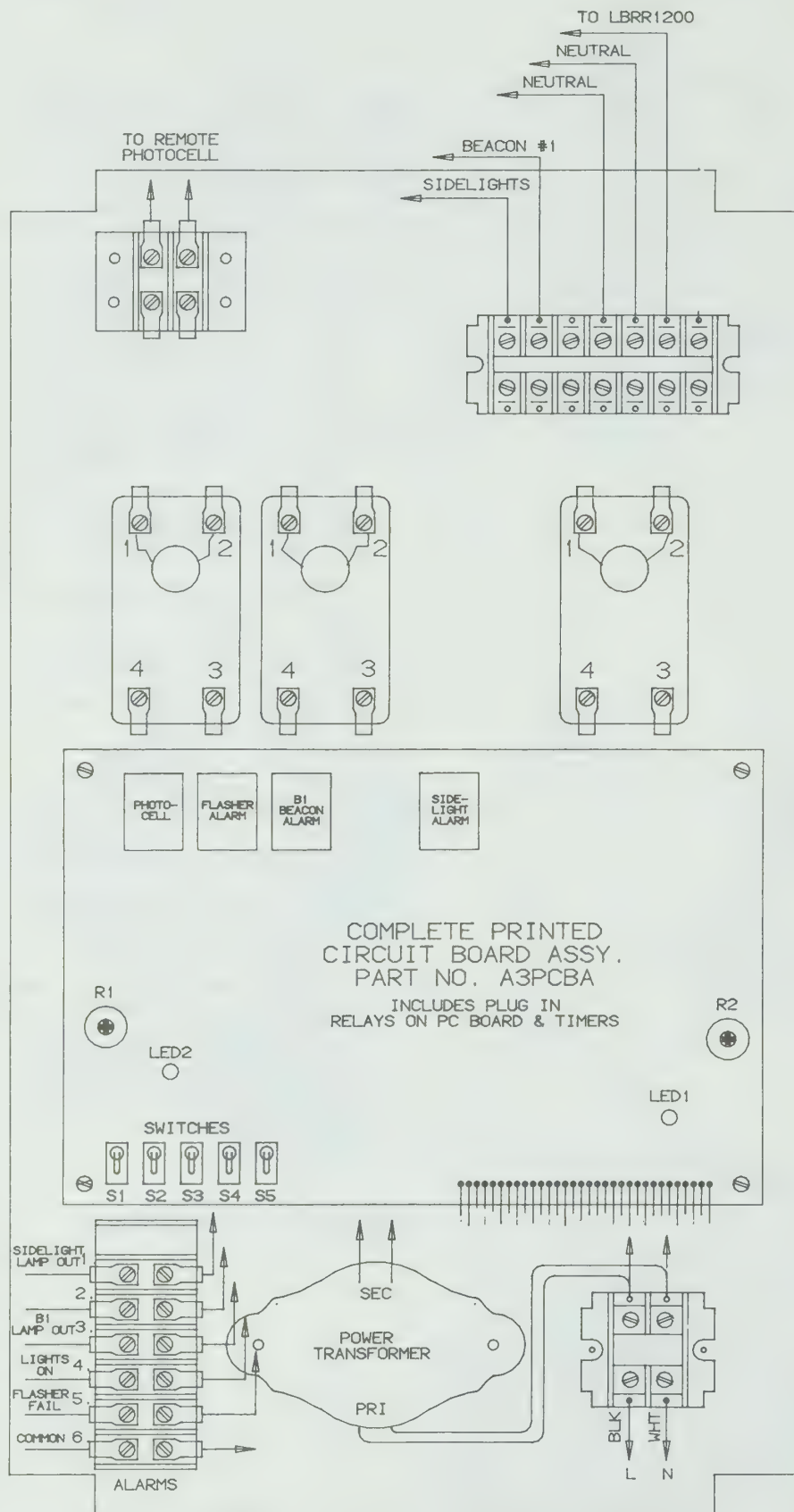
FLASHER ALARM SIMULATION

- 1). CONNECT OHMMETER LEADS ACROSS THE ALARM TERM. BLOCK FROM TERMINAL #5 TO #6.
- 2). SWITCH S3 TO THE UP POSITION. THIS SHOULD INDICATE AN ALARM RELAY CONTACT CLOSURE ON THE OHMMETER. (BEACON LAMPS SHOULD BE LIT & BURNING STEADY)
- 3). RETURN S3 TO THE DOWN POSITION. TEST COMPLETED.

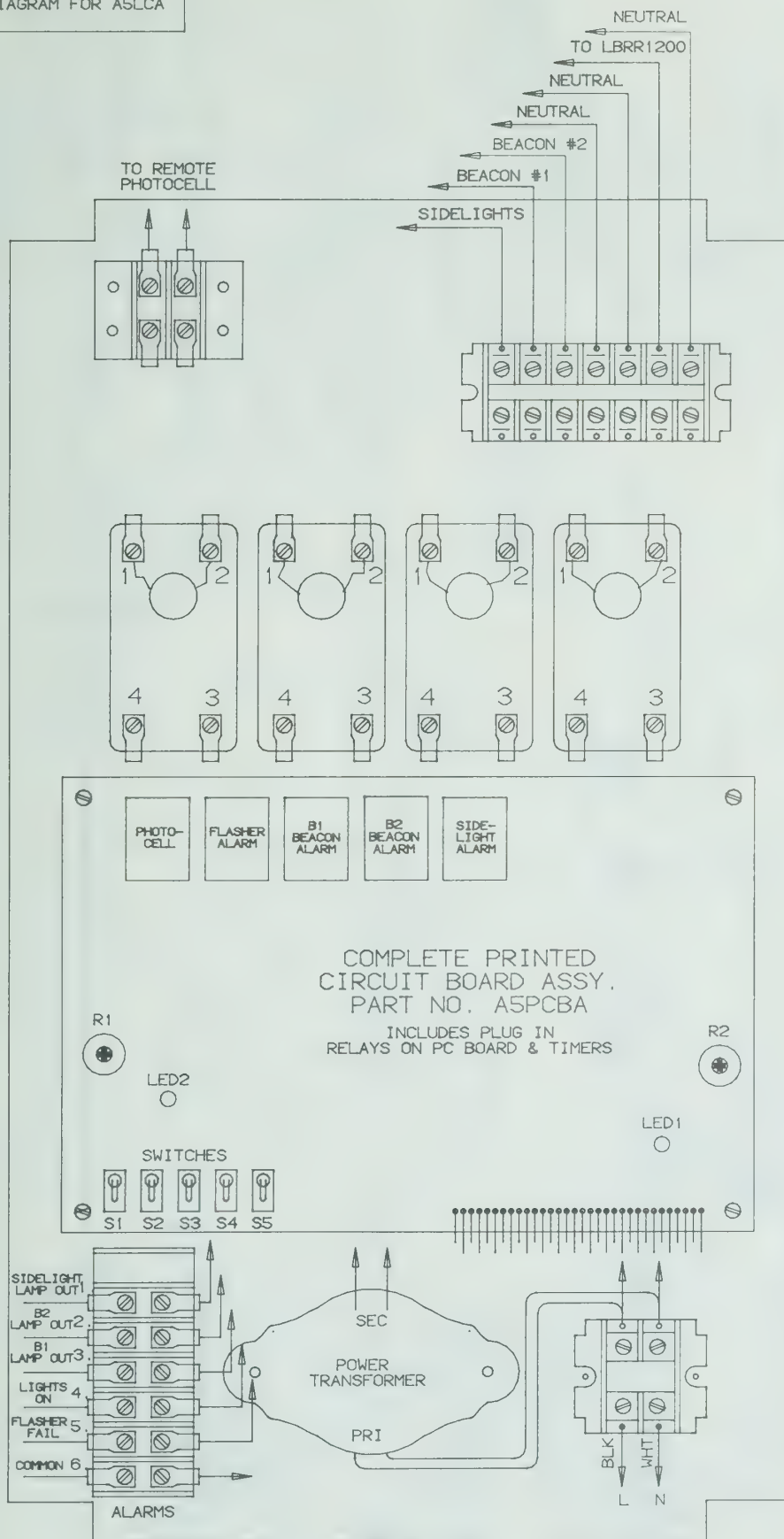
POWER FAILURE ALARM SIMULATION (ALL ALARMS)

- 1). TURN POWER OFF TO THE CONTROL AT THE BREAKER PANEL.
- 2). CONNECT THE OHMMETER TO TERM. #6 THEN TO EACH OF THE OTHER TERMINALS ONE AT A TIME. (EXCEPT #2) AN ALARM RELAY CONTACT CLOSURE SHOULD BE INDICATED ON THE OHMMETER AT EACH TERMINAL.
- 3). TURN THE POWER BACK ON AT THE BREAKER PANEL. TEST COMPLETED.

RETURN SWITCH S1 TO THE FULL DOWN POSITION TO RESUME NORMAL OPERATION OF THE LIGHTING CONTROL.



C840385

PICTORIAL WIRING
DIAGRAM FOR ASLCA

FIELD CALIBRATION PROCEDURE

MUST BE PERFORMED ON ALL AS LIGHTING CONTROLS WITH ALARM TO INSURE CORRECT PHOTOCELL OPERATION AND CORRECT OPERATION OF THE SIDELIGHT ALARM CIRCUIT.

CALIBRATION REQUIRES THE USE OF AN OHMMETER AND AN ADJUSTING TOOL (ADJUSTING TOOL IS PROVIDED WITH CONTROL).

BEFORE PROCEEDING MAKE SURE THAT ALL SWITCHES ARE IN THEIR FULL DOWN POSITION (NOTE: S1 IS A THREE POSITION SWITCH).

PHOTOCELL CALIBRATION PROCEDURE

- 1). SWITCH S1 TO FULL UP POSITION
- 2). SLOWLY TURN R1 UNTIL BOTH LED'S ARE LIT (USE ADJUSTING TOOL)
- 3). SLOWLY TURN R1 IN THE OPPOSITE DIRECTION UNTIL BOTH LED'S GO OFF AND THEN STOP TURNING—DO NOT GO BEYOND THIS POINT—CAREFULLY REMOVE ADJUSTING TOOL.
- 4). RETURN S1 TO FULL DOWN POSITION. CALIBRATION COMPLETED.

SIDELIGHT ALARM CALIBRATION PROCEDURE

- 1). CONNECT OHMMETER LEADS ACROSS ALARM TERMINAL STRIP FROM TERMINAL #1 TO #6.
- 2). SWITCH S1 TO THE CENTER POSITION (SIDELIGHTS SHOULD NOW BE LIT).
- 3). SLOWLY TURN R2 WITH ADJUSTING TOOL UNTIL OHMMETER INDICATES THAT ALARM RELAY CONTACTS CLOSE.

IF OHMMETER DOES NOT INDICATE CONTACT CLOSURE, REVERSE DIRECTION UNTIL IT DOES.

- 4). SLOWLY TURN R2 IN THE OPPOSITE DIRECTION UNTIL THE OHMMETER INDICATES THAT ALARM RELAY CONTACTS OPEN.
- 5). DISCONNECT OHMMETER AND RETURN S1 TO THE DOWN POSITION. CALIBRATION COMPLETED.

FIELD TEST PROCEDURE

BEGIN TESTING BY SWITCHING S1 TO THE CENTER POSITION, THIS WILL TURN ON ALL TOWER LIGHTS.

SIDELIGHT LAMP FAILURE ALARM SIMULATION

- 1). CONNECT OHMMETER LEADS ACROSS THE ALARM TERMINAL BLOCK FROM TERM. #1 TO #6.
- 2). SWITCH S5 TO THE UP POSITION. THIS SHOULD INDICATE AN ALARM RELAY CONTACT CLOSURE ON THE OHMMETER.
- 3). RETURN S5 TO THE DOWN POSITION. TEST COMPLETED.

B1-BEACON LAMP FAILURE ALARM SIMULATION

- 1). CONNECT OHMMETER LEADS ACROSS THE ALARM TERM. BLOCK FROM TERMINAL #3 TO #6.
- 2). SWITCH S2 TO THE UP POSITION. AFTER A FEW SECONDS THE OHMMETER SHOULD INDICATE AN ALARM RELAY CONTACT CLOSURE.
- 3). RETURN S2 TO THE DOWN POSITION. TEST COMPLETED.

B2-BEACON LAMP FAILURE ALARM SIMULATION

- 1). CONNECT OHMMETER LEADS ACROSS THE ALARM TERM. BLOCK FROM TERMINAL #2 TO #6.
- 2). SWITCH S4 TO THE UP POSITION. AFTER A FEW SECONDS THE OHMMETER SHOULD INDICATE AN ALARM RELAY CONTACT CLOSURE.
- 3). RETURN S4 TO THE DOWN POSITION. TEST COMPLETED.

FLASHER ALARM SIMULATION

- 1). CONNECT OHMMETER LEADS ACROSS THE ALARM TERM. BLOCK FROM TERMINAL #5 TO #6.
- 2). SWITCH S3 TO THE UP POSITION. THIS SHOULD INDICATE AN ALARM RELAY CONTACT CLOSURE ON THE OHMMETER. (BEACON LAMPS SHOULD BE LIT & BURNING STEADY)
- 3). RETURN S3 TO THE DOWN POSITION. TEST COMPLETED.

POWER FAILURE ALARM SIMULATION (CALL ALARMS)

- 1). TURN POWER OFF TO THE CONTROL AT THE BREAKER PANEL.
- 2). CONNECT THE OHMMETER TO TERM. #6 THEN TO EACH OF THE OTHER TERMINALS ONE AT A TIME. AN ALARM AN ALARM RELAY CONTACT CLOSURE SHOULD BE INDICATED ON THE OHMMETER AT EACH TERMINAL.
- 3). TURN THE POWER BACK ON AT THE BREAKER PANEL. TEST COMPLETED.

RETURN SWITCH S1 TO THE FULL DOWN POSITION TO RESUME NORMAL OPERATION OF THE LIGHTING CONTROL.

15' SERVICE CORD SUPPLIED
P/N KH2437 (WRAPLOCKED)

WATERTIGHT CONN.
P/N 2534

PIPE PLUG

WRAPLOCK TO HORIZ. OR
DIAG. BRACE AS REQ'D.

JB47C JUNC. BOX

ALTERNATE 'C'

FOR USE WHEN JUNCTION BOX IS NOT
AT SAME ELEV. AS OBI SIDE LIGHTS

ALTERNATE 'A'

TO 3RD, OBI
IF REQ'D.

INSIDE COR
LADDER
(REF)

JUNCTION BOX
2534

15' SO CORD
2534

3/4" X 18" NIPPLE FOR
SSV, 24" LG FOR MW

18" NIPPLE FOR SSV/
C MW TOWERS

TB27A,
IF REQ'D.

SERVICE CORD TO BE WRAPLOCKED
24" O.C. TO TOWER MEMBERS

OBI OBSTRUCTION
LIGHT (TYP)

TO 3RD OBI, IF REQ'D.

ALTERNATE 'B'

3/4" CONDUIT (FIELD
CUT TO REQ'D LGTH)

JUNCTION BOX

3/4" ERICKSON COUPLING
(TYP)

JB47C JUNC. BOX
W/ 90° SHORT ELBOW

3/4" COUPLING
P/N 520062 (TYP)

3/4" X 18" CONDUIT
NIPPLES

NOTES

1. IN ALTERNATE 'A', JUNCTION BOX IS CONNECTED
TO MAIN CONDUIT RUN WITH SO CORD.
2. CONDUIT LENGTHS, OTHER THAN THOSE SHOWN, VARY
AND MUST BE DETERMINED ACCORDING TO THE
TOWER FACE WIDTH.
3. LOCKNUTS PROVIDED FOR EVERY CONNECTION.

ALL HORIZONTAL RUNS OF
CONDUIT MUST BE SUPPORTED
A MAXIMUM OF 10 FT. ON
CENTERS
(MAY GO THROUGH
CENTROID OF TOWER
SPACE PERMITTING)

3/4" ERICKSON
COUPLING

3/4" X 18" CONDUIT
NIPPLE W/ 30°
BEND

JUNCTION BOX

3/4" ERICKSON COUPLING

ALTERNATE 'D'

3/4" X 4" CONDUIT
NIPPLE

TB27A CONDULET

UNR-Rohn

ALTERNATE CONNECTION METHODS FOR OBSTRUCTION LIGHTS

Scale	NONE	Unless otherwise specified, dimensions are given in inches.
Drawn by	GMN C/5/82	Tolerances
Checked by	JHD/DC C/10/82	Decimals
Approved by Engineering	TS C/10/82	Fractions
Approved by Production		Material
Approved by Sales		Finish
		Angles
		Weight

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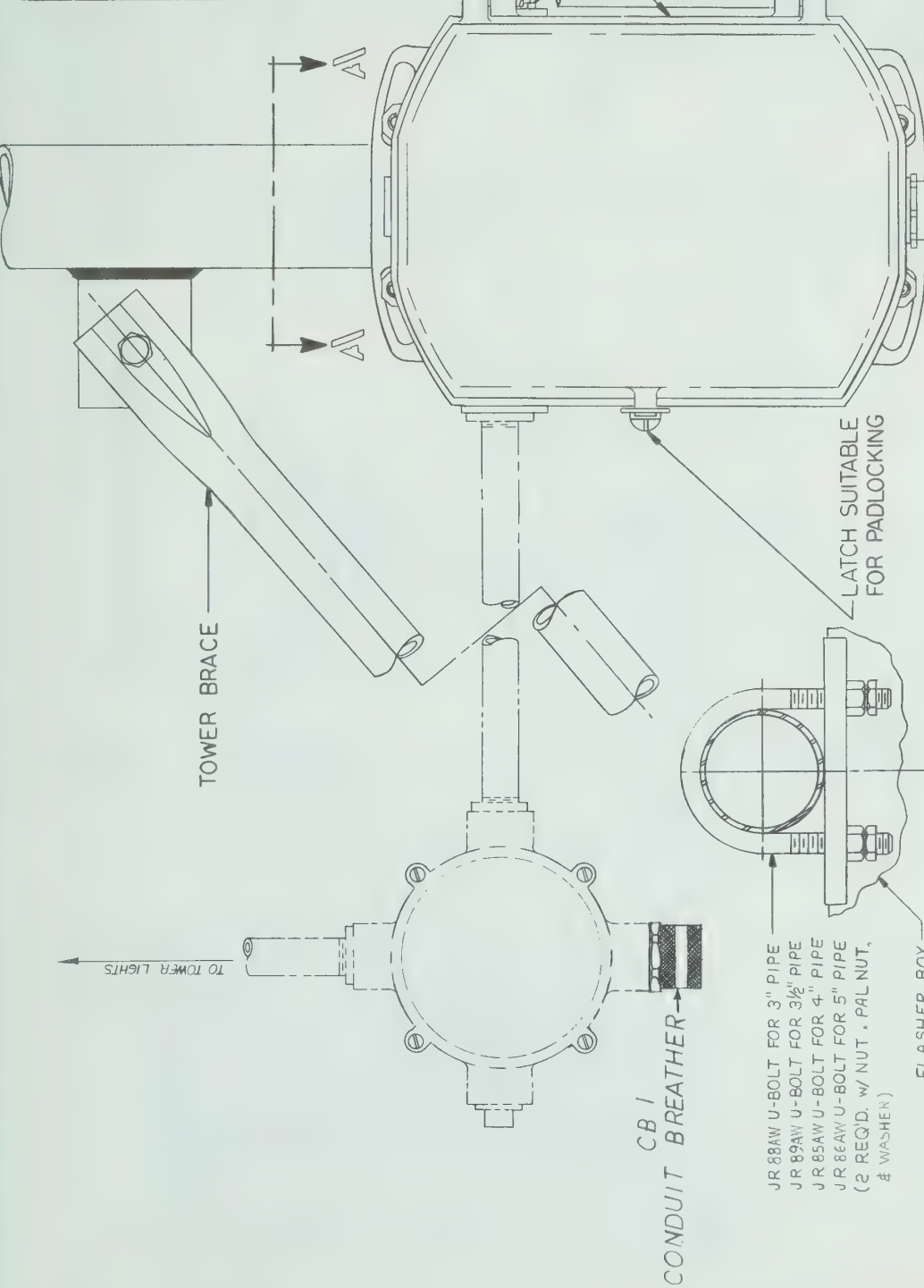
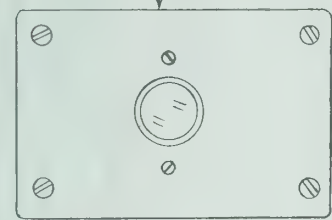
File Number

Drawing Number
B820454 R5

4-15-86

NOTE:
PHOTOCELL SHOULD
FACE NORTHERN SKY.

RFCL23 USED ON
"FA" SERIES
CONTROLS



OTHER CONDUIT OPENINGS
MAY BE USED IF MORE
CONVENIENT

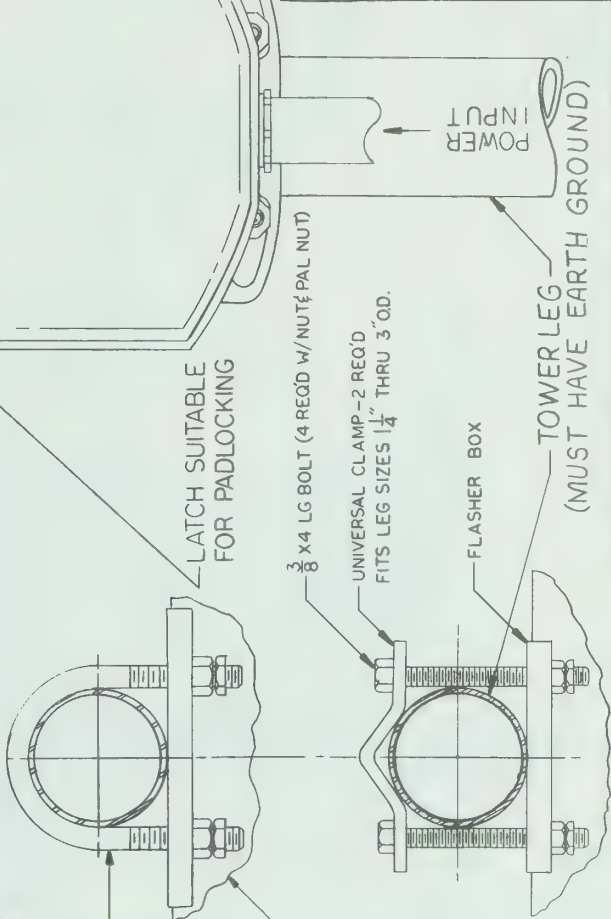
NO.	DESCRIPTION	DATE	BY
R3	REVISED PHOTOCELL DETAIL	7-16-76	MDI
R2	ADDED NOTE ABOUT GROUNDING	4-3-76	MDI
R1	REDRAWN	4-15-75	WR

ROHN® MANUFACTURING
DIVISION OF

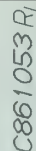
LIGHTING CONTROL LAYOUT

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MATERIAL		FINISH		WT.	
NONE		NONE		NONE	
DATE	4-15-75	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	DWG. NO.	C 70115	
SCALE	1" = 1'-0"	TOLERANCES	ANGLES	R 9	
DATE	4-25-75	FRACTION	DEC.	2	
DATE	4-25-75	FRACTION	DEC.	2	



R7	ADD CB-1 BREATHER CAP, NEW HINGE 5/21/83 JEB
R6	REVISED TITLE BLOCK, ADDED R/C 12, 3/23/80 JEB
R5	REVISED PHOTOCELL, REVISED TITLE BLOCK, 2/16/78 GDS
R4	ADDED U-BOLT DETAIL & REV. HOUSING 8-16-76 MDI
R3	REV PHOTOCELL, U-BOLT DETAIL, 2-1884 JEB
R2	REVISED TITLE AND REMOVED NOTE

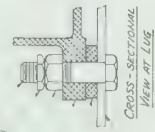
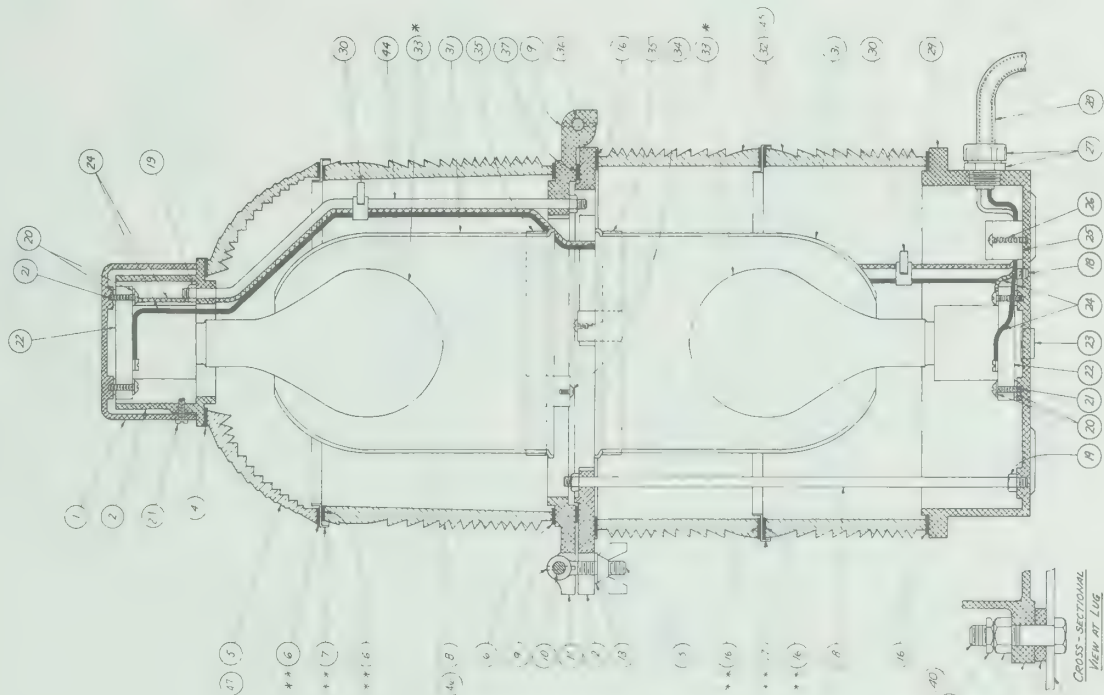


ITEM	PART NO.	BIR	BI
5	547870	—	1
8	541770	—	1
31	711130	—	2
32	547020	—	2
34	220009	—	6
45	AP5555	2	—
46	AP5556	1	—
47	AP5557	1	—
35	BACR	—	2
6	3072	1	3
7	PR1	—	1
16	BGR1	2	4
17	PR2	—	1

C-CHART

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	1	B1C	CHANDY CAP	D 20007 R1
2	1	B1F	CHANDY FLANGE	D 20007 R1
3	1	B1G	3/8" x 1/2" OD NIPERONE GASKET	
4	1	B1H	UPPER LENS	
5	1	B1I	UPPER 1/2" RING	
6	1	B1J	UPPER 1/2" RING	
7	1	B1K	CENTER LENS	
8	1	B1L	1/2" x 1/2" DRIVE PIN 15	
9	1	B1M	3/8" x 1/2" ALUMINUM PIN	
10	1	B1N	UPPER HINGE RING	
11	1	B1O	LOWER HINGE RING	
12	1	B1P	3/8" WASHER, STAINL STEEL	
13	1	B1Q	3/8" WASHER, STAINL STEEL	
14	1	B1R	EVERLOUT (STAINL STEEL) THREADED	B100653
15	1	B1S	3/8" x 1/2" OD NIPERONE GASKET	
16	1	B1T	LOWER 1/2" RING	
17	1	B1U	3/8" x 1/2" OD NIPERONE GASKET	
18	1	B1V	THE ROD, LOWER, 1/2" DIA.	B100645
19	1	B1W	1/2" DIA. HEX. NUT, ZINC PLATED	
20	1	B1X	1/2" DIA. HEX. NUT, ZINC PLATED	
21	1	B1Y	1/2" DIA. HEX. NUT, ZINC PLATED	
22	1	B1Z	1/2" DIA. HEX. NUT, ZINC PLATED	
23	1	B2A	1/2" DIA. HEX. NUT, ZINC PLATED	
24	1	B2B	1/2" DIA. HEX. NUT, ZINC PLATED	
25	1	B2C	1/2" DIA. HEX. NUT, ZINC PLATED	
26	1	B2D	1/2" DIA. HEX. NUT, ZINC PLATED	
27	1	B2E	1/2" DIA. HEX. NUT, ZINC PLATED	
28	1	B2F	1/2" DIA. HEX. NUT, ZINC PLATED	
29	1	B2G	1/2" DIA. HEX. NUT, ZINC PLATED	
30	1	B2H	1/2" DIA. HEX. NUT, ZINC PLATED	
31	1	B2I	1/2" DIA. HEX. NUT, ZINC PLATED	
32	1	B2J	1/2" DIA. HEX. NUT, ZINC PLATED	
33	1	B2K	1/2" DIA. HEX. NUT, ZINC PLATED	
34	1	B2L	1/2" DIA. HEX. NUT, ZINC PLATED	
35	1	B2M	1/2" DIA. HEX. NUT, ZINC PLATED	
36	1	B2N	1/2" DIA. HEX. NUT, ZINC PLATED	
37	1	B2O	1/2" DIA. HEX. NUT, ZINC PLATED	
38	1	B2P	1/2" DIA. HEX. NUT, ZINC PLATED	
39	1	B2Q	1/2" DIA. HEX. NUT, ZINC PLATED	
40	1	B2R	1/2" DIA. HEX. NUT, ZINC PLATED	
41	1	B2S	1/2" DIA. HEX. NUT, ZINC PLATED	
42	1	B2T	1/2" DIA. HEX. NUT, ZINC PLATED	
43	1	B2U	1/2" DIA. HEX. NUT, ZINC PLATED	
44	1	B2V	1/2" DIA. HEX. NUT, ZINC PLATED	
45	1	B2W	1/2" DIA. HEX. NUT, ZINC PLATED	
46	1	B2X	1/2" DIA. HEX. NUT, ZINC PLATED	
47	1	B2Y	1/2" DIA. HEX. NUT, ZINC PLATED	

ADHESIVE REPLACES E-RINGS
AND GASKETS FOR BIR
EFFECTIVE 11/85.



BEACON PLATE
IS TO BE MOUNTED OVER BOLT HEADS
ON 1/2" DIA HOLES EQUALLY SPACED
FOR MOUNTING BEACON

R1	REMOVED TENS. 1/4" DIA. 1/2" LONG. BIR 100653	6-17-83
R2	ADDED CHART BIR, DELETE 43, 45, 50, 5001 MMS	5-2-83
R3	30015 42 WAS 4, 19 200023 WAS 20002	6-7-82
R4	REMOVED DESMONTING ON PIN 1/2" DIA	6-7-82
R5	REMOVED PART NUMBER	3-25-80
R6	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R7	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R8	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R9	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R10	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R11	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R12	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R13	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R14	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R15	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R16	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R17	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R18	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R19	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R20	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R21	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R22	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R23	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R24	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R25	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R26	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R27	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R28	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R29	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R30	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R31	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R32	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R33	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R34	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R35	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R36	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R37	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R38	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R39	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R40	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R41	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R42	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R43	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R44	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R45	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R46	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79
R47	CHANGED ITEM 13 PART NO. 1/2" DIA	5-25-79

UNARCO-ROHM
Division of Unarco Industries Inc.

NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____
ZIP: _____

DATE: 10-21-77
BY: DAW
CHECKED BY: _____
APPROVED BY: _____

REVISIONS: _____
REASON: _____
DATE: _____

BEACON ASSEMBLY

ADDED ADHESIVE NOTE, DELETE 2-RINGS, GASKETS,
AND GASKETS FOR BIR
EFFECTIVE 11/85

BEACON ITEM 13 (1/2" DIA) 1/2" DIA 1/2" DIA

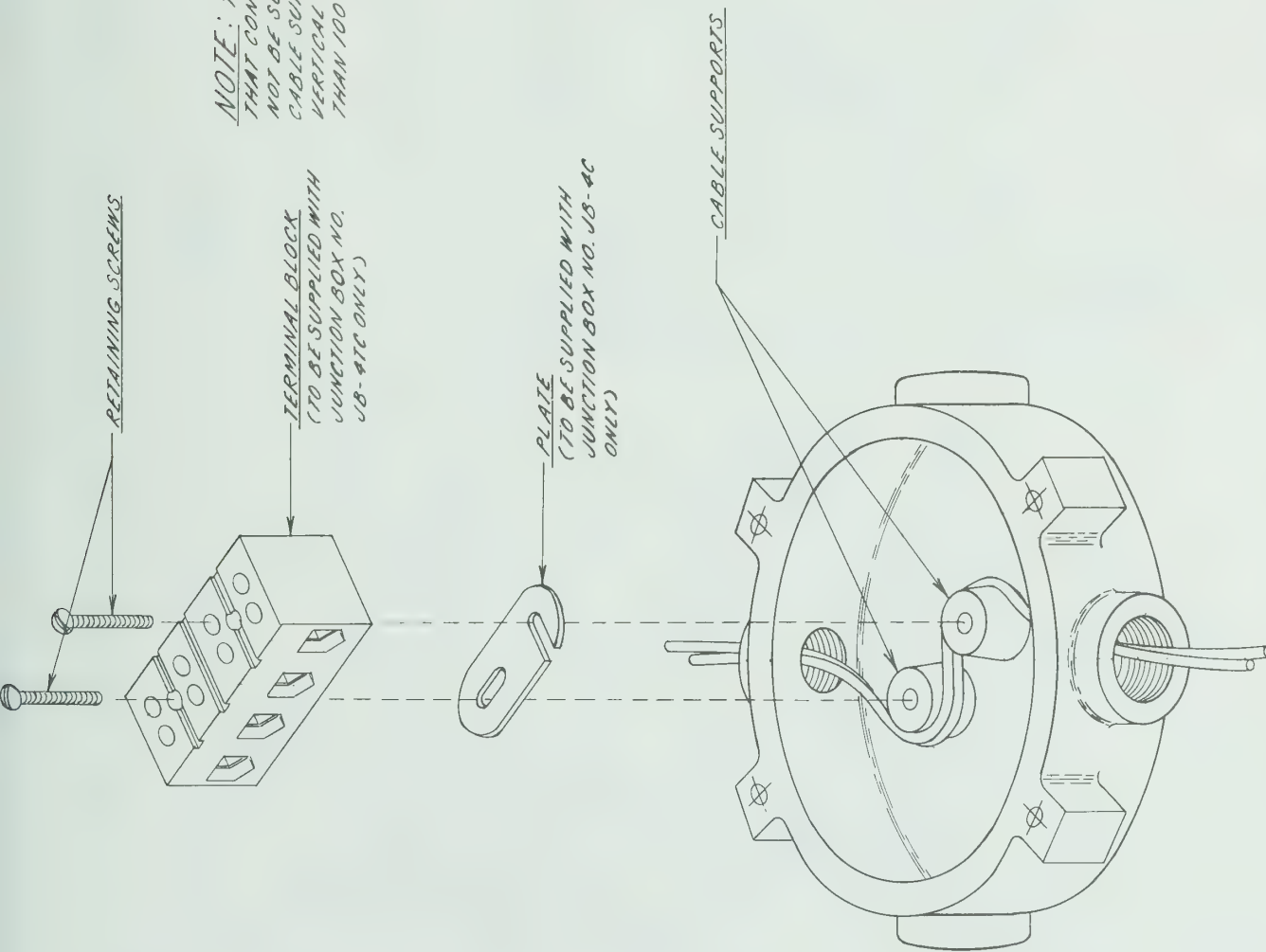
BEACON ITEM 13 (1/2" DIA) 1/2" DIA 1/2" DIA

BEACON ITEM 13 (1/2" DIA) 1/2" DIA 1/2" DIA

BEACON ITEM 13 (1/2" DIA) 1/2" DIA 1/2" DIA

BEACON ITEM 13 (1/2" DIA) 1/2" DIA 1/2" DIA

BEACON ITEM 13 (1/2" DIA) 1/2" DIA 1/2" DIA



NOTE: THE NATIONAL ELECTRIC CODE STATES THAT CONDUCTORS IN VERTICAL RUNS SHALL NOT BE SUPPORTED BY TERMINALS AND THAT CABLE SUPPORTS SHALL BE PROVIDED IN EACH VERTICAL RUN AT INTERVALS NOT GREATER THAN 100 FEET.

No. 1 Revision Description Date By

Unarco-Rohn

Division of Unarco Industries, Inc.

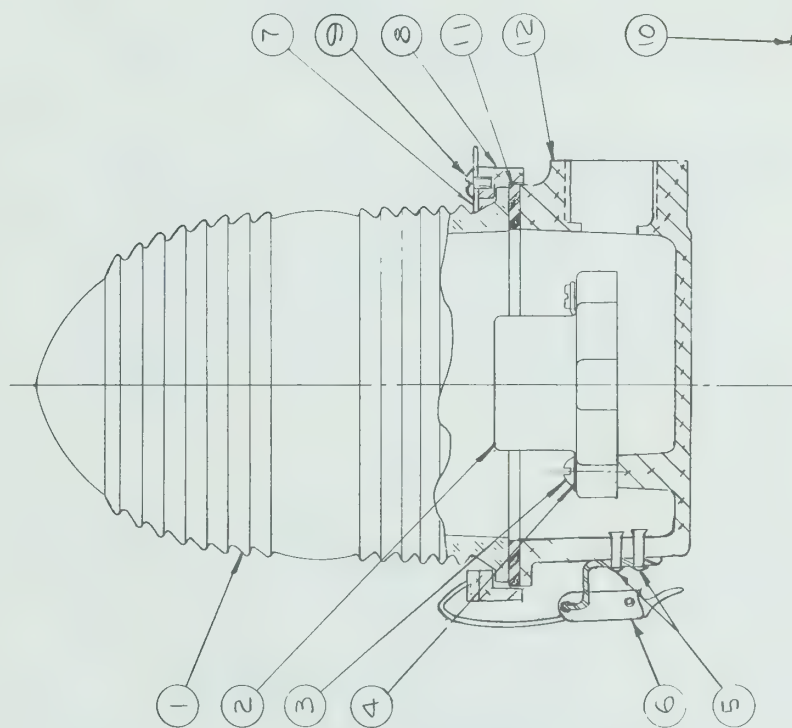
JUNCTION BOX CABLE SUPPORT

Scale		NONE		Date		2/10/76	
Drawn by		GLS		Date		2-13-76	
Checked by		WAL		Date		2-13-76	
Approved by Engineering		(UL)		Date		2-13-76	
Approved by Production				Date			
Approved by Sales				Date			
Drawing Number				Date			

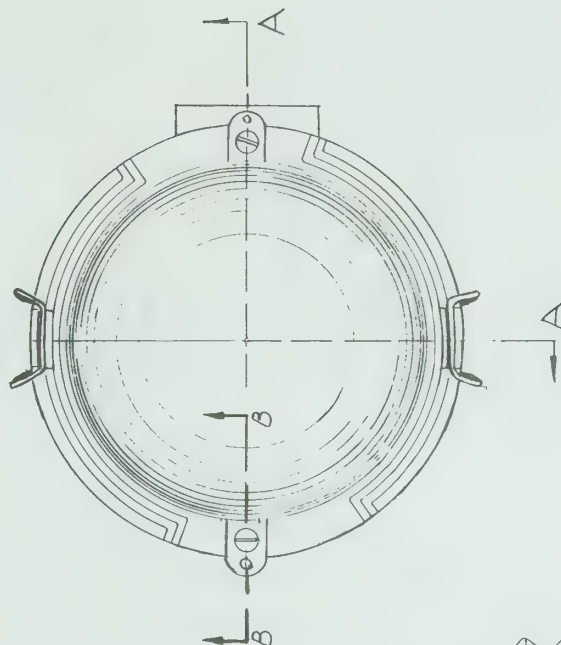
C-760126

ITEM NO	NO REQ	DESCRIPTION	PART NO.
1	1	LENS	530230
2	1	LAMP RECEPTACLE	50714
3	2	#8-32 X 3/4 LG. RD. HD. CAB. PLATED MACH. SCREW	220006
4	2	#10 FLAT NYLON WASHER	250002
5	5	1/8" DIA. POP RIVETS	280010
6	2	LATCH ASSY	0BL
7	2	LENS RETAINER CLIP, ALUM.	0BRC
8	1	LENS RETAINER RING (*8810362R)	0BR
9	2	#8-32 X 1/4 LG. ROUND HEAD SS MACHINE SCREW	220186
10	1	LENS RETAINING CABLE W/LUGS	0BLRC
11	1	NEOPRENE GASKET	0BGI
12	1	BASE (*8810362R)	0BB1

*FABRICATION DWG. -
FOR SHOP USE ONLY



SECTION A-A



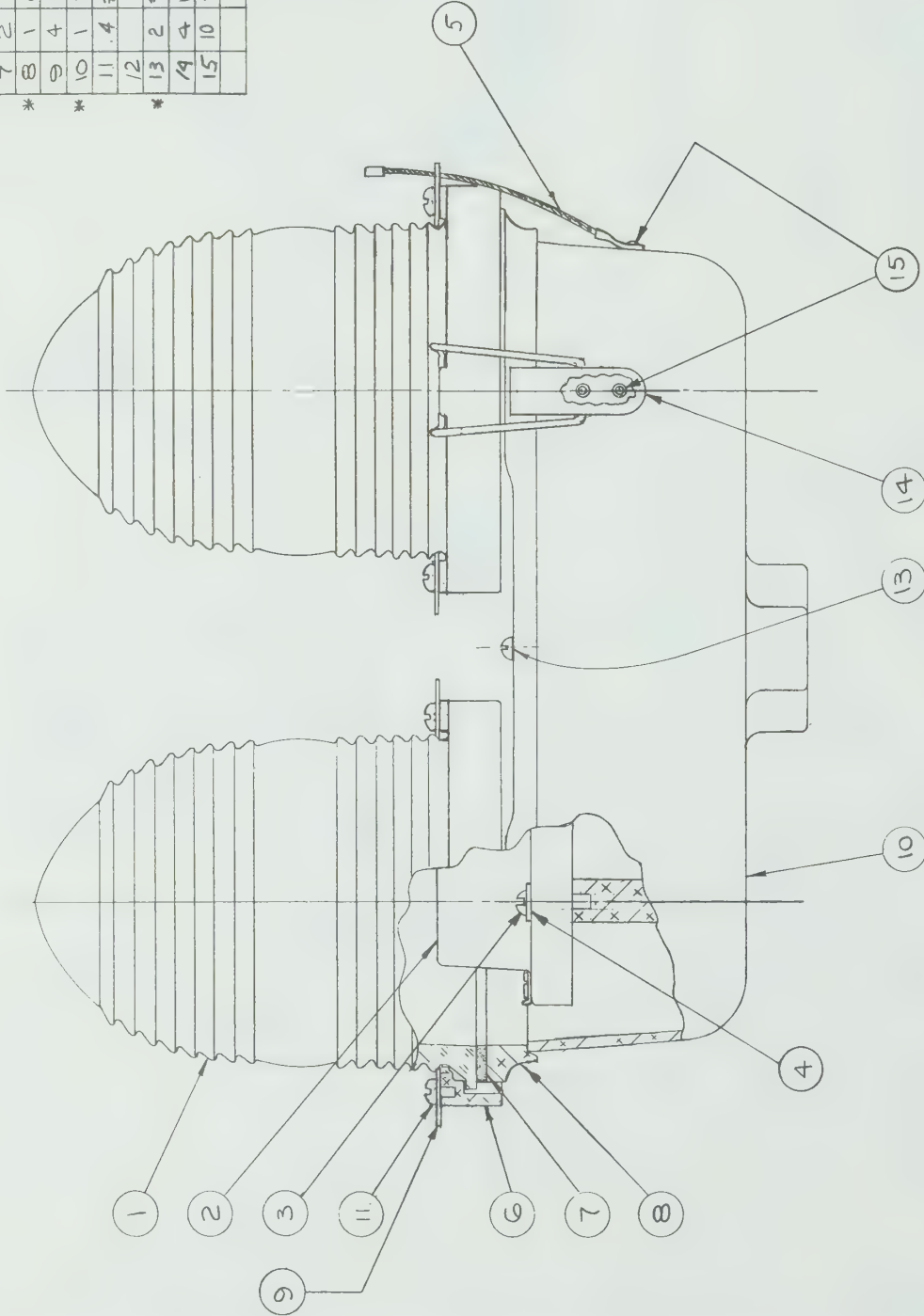
SECTION B-B

DRAWN KEITH	TITLE
CHECKED L.M.	OBSTRUCTION
APPROVED	LIGHT ASSEMBLY
DATE 6-29-62	DRAWING NO.
SCALE FULL	C62070H
	ROHN MFG.
	PEORIA, ILLINOIS

R3	RK8	220186	WAS 220186, 250002 WAS 4	4 26-83
R2	UEB	CHARGED	0B1 LATCH & BASE	4 180
R1	ALJ	GENERAL	REVISIONS	

ITEM NO	DESCRIPTION	PART NO.
1	LENS	530230
2	LAMP RECEPTACLE	50714
3	#8-32 X 1/8 LG PLATED ZINC	220006
4	#10 FLAT NYLON WASHER	250002
5	LENS RETAINING CABLE W/LUGS	08LRC
6	LENS RETAINER RING	08R
7	GASKET	08G1
8	COVER	08C2
9	LENS RETAINER CLIP, ALUM	08RC
10	BASE	08B2
11	#8-32 X 1/4 LG ROUNDHEAD SS MACHINE SCREW	220186
12		
13	#8-32 X 1/8 LG. PLATED ZINC SCR	220007
14	LATCH ASSY	08L
15	1/8 DIA POP RIVET - STEEL MANDELL	280010

* DENOTES PRINT AVAILABLE



DRAWN KEITH	TITLE
CHECKED	OBZ
APPROVED	DOUBLE OBSTRUCTION LIGHT ASSEMBLY
DATE 1-31-63	ROHN MFG.
SCALE FULL	PEORIA, ILLINOIS
	DRAWING NO. C621306 R4

REMOVED 220019 & 520017	426-53
220186 WAS 220186, 220007 WAS 220015	
BY JMD PIN 08RC WAS LRC	9-9-80
BY JEB REVISED LATCH & SCREWS	4-1-80
BY JAS GENERAL REVISIONS	

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

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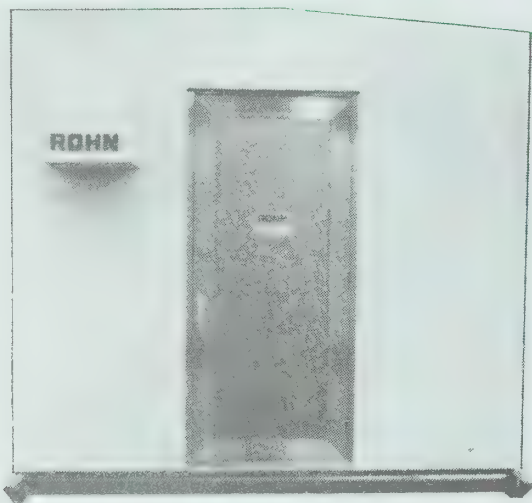
ROHN®

EQUIPMENT SHELTERS



*VERSATILE
EQUIPMENT PROTECTION*

ROHN SHELTERS.....



Standard sizes available from 8' x 8' to 12' x 20' with 8' ceiling.

Rohn Equipment Shelters are built around your equipment protection needs. Nothing is left to chance. The protection of your sensitive equipment is our prime concern.

Each shelter has standard features such as finest grade construction materials, insulation that will meet or exceed the specifications set by your engineering and design requirements, top quality electrical materials, and fiberglass construction unsurpassed for strength and durability.

Construction of the basic shelter is done to Rohn's high quality standards. A complete environmental control system is available in each Rohn Shelter. Security will be no problem with our optional reinforced insulated aluminum doors with three-point locking systems. In short, your shelter will be a complete protection system.

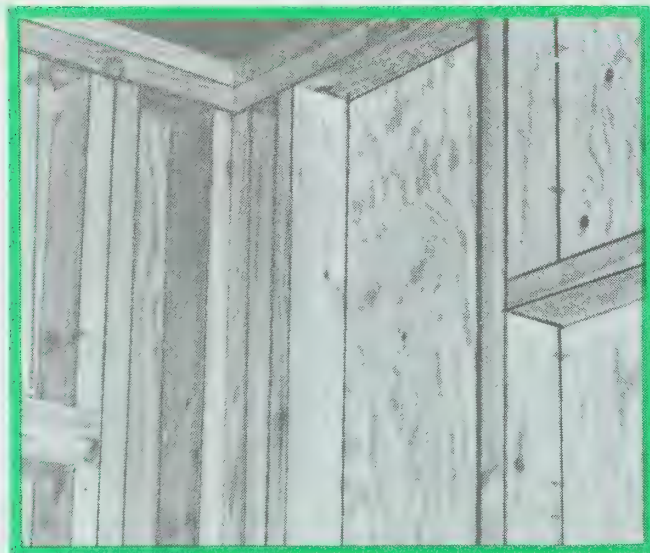
PERMANENT INSTALLATION WITH MODULAR FEATURES

Each Rohn Equipment Shelter is a complete, self-contained unit. The under carriage of the shelter is designed to be fastened to a concrete foundation and can be slid into place and removed at a later date. The under carriage skid is "hot dip" galvanized for longer life. Your needs dictate the equipment design. If one of Rohn's many standard shelters will fit your needs then our staff will assist in selection. Each unit is designed to maintain a constant environment for your equipment.

Rohn also makes available units of modular design for applications requiring larger shelters. In many cases, plans must be made for vast equipment updates and additions. Rohn can supply shelters with either add-on capability or in large two-piece designs shipped to the site completely furnished inside and out with only minor assembly required in the field.



Custom designed and engineered to fit specific equipment.



Many standard features with numerous options available.

.....Protection Systems!

ESTHETICALLY APPEALING.

The contoured design of the smooth lines of the Rohn Equipment Shelter is an enhancement to any installation. There is no tin shed or concrete bunker appearance. The innovative design of a Rohn Shelter has clean lines that are not objectionable regardless of the setting.

COLORS AVAILABLE.

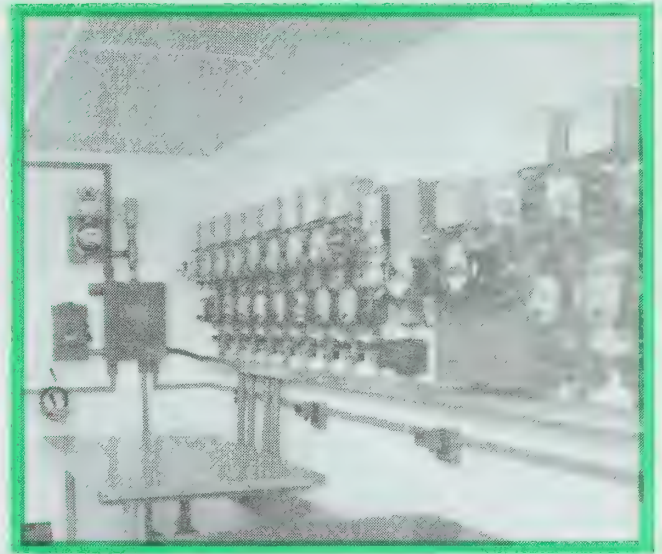
Rohn Shelters are available in colors of your choice upon request. The color of a Rohn Shelter is permanently bonded in the body of the fiberglass so there will be no chalking, fading, color drop off, or other unsightly appearance due to weather conditions.

CUSTOM ARCHITECTURAL DESIGN.

Shelters including custom trim and design match such as stucco, brick, etc., are available at additional cost. Rohn designs lend themselves to custom modification to satisfy each customers needs. Complete installation at Rohn's plant of customer furnished equipment by expert craftsmen is available.

EASY INSTALLATION.

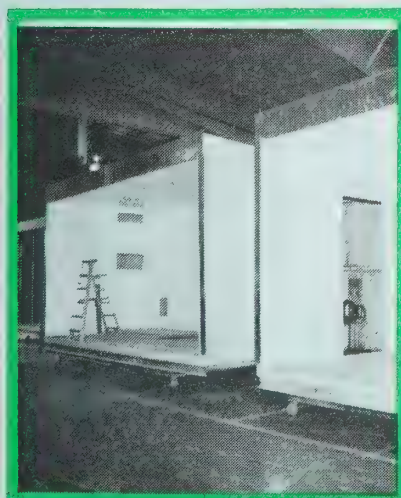
Installation of a Rohn Shelter is as simple as 1 - 2 - 3. There will be no surprise assembly instructions. Each shelter is shipped completely assembled and ready for installation. All mechanical and electrical equipment has been thoroughly tested at Rohn's plant before shipment. All that is needed for site preparation is foundation and service hook-ups. Rohn will provide you with a location drawing for both foundation and service entrances so site preparation can be done well in advance of shelter arrival. Upon receipt of the shelter, all that need be done is set it in place and connect the services. Ready for equipment installation at your convenience, the Rohn Shelter is a functioning equipment protection system from that point on.



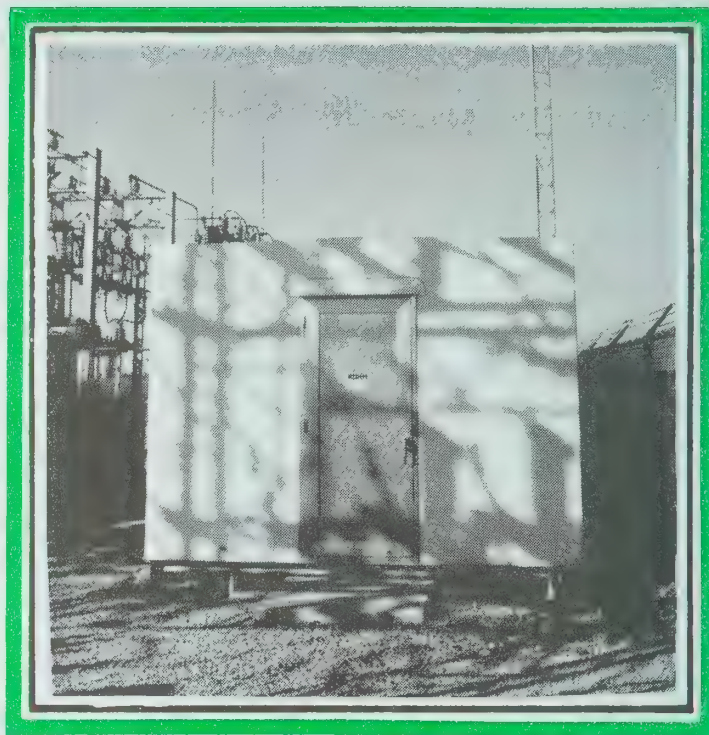
Maximum equipment protection.



No on-site assembly required.
Easy installation.



Complete turn-key installation and special services available on request.



DESIGNED AND CONSTRUCTED WITH VERSATILITY OF PERFORMANCE AND MINIMUM MAINTENANCE IN MIND.

The finest grade construction materials are used throughout the shelter. Fiberglass laminated construction gives each shelter outstanding strength. It also provides a maintenance-free exterior and

minimum maintenance interior. Standard shelters range from 8' x 8' to 12' x 20' with a floor to ceiling height of 8'. Top quality electrical materials are used to

provide sufficient service without modification. A complete environmental control system is available for each shelter. The final innovative touch is installation with minimum site preparation.

Rohn Shelters are the optimum in equipment protection. For more information on Rohn Equipment Shelters, contact us today.

ROHN®

Equipment Shelters

FORM NO. 84-1378

PO BOX 2000
PEORIA, IL 61656
TWX: 910-652-0646
FAX: 309-697-4400

ROHN
EQUIPMENT SHELTERS, ELECTRICAL PACKAGES AND ACCESSORIES

STANDARD EQUIPMENT SHELTERS:

Laminated "Sandwich" Constructed of High Grade Lumber. Floor Constructed of 4x4 Lumber. Wall and Roof Constructed of 2x4, 2x6 Lumber, Waferboard, and Plywood. Insulated with Fiberglass Bat with Vapor Barrier.

Exterior Skin is Laminated Fiberglass Composite with 15 Mils of Gel Coat. Shelter is Furnished Complete with Hot Dip Galvanized Structural Steel Skid and 3' x 7' Insulated Steel/Aluminum Door with Keyed Lock Set and Dead Bolt, Keyed Alike. Standard Color - Desert Tan.

DIMENSIONS					DIMENSIONS					DIMENSIONS				
PART NO.	(W)	(L)	(H)	WT.	PART NO.	(W)	(L)	(H)	WT.	PART NO.	(W)	(L)	(H)	WT.
ESB88	8'	8'	8'	2625	ESB889	8'	8'	9'	2721	ESB8810	8'	8'	10'	2817
ESB810	8'	10'	8'	3240	ESB8109	8'	10'	9'	3348	ESB81010	8'	10'	10'	3456
ESB812	8'	12'	8'	3840	ESB8129	8'	12'	9'	3960	ESB81210	8'	12'	10'	4080
ESB814	8'	14'	8'	4425	ESB8149	8'	14'	9'	4557	ESB81410	8'	14'	10'	4689
ESB816	8	16'	8'	4990	ESB8169	8	16'	9'	5134	ESB81610	8	16'	10'	5278
ESB818	8	18'	8'	5545	ESB8189	8	18'	9'	5701	ESB81810	8	18'	10'	5857
ESB820	8'	20'	8'	6080	ESB8209	8'	20'	9'	6248	ESB82010	8'	20'	10'	6416
ESB1010	10'	10'	8'	4050	ESB10109	10'	10'	9'	4170	ESB101010	10'	10'	10'	4290
ESB1012	10'	12'	8'	4800	ESB10129	10'	12'	9'	4932	ESB101210	10'	12'	10'	5064
ESB1014	10'	14'	8'	5530	ESB10149	10'	14'	9'	5674	ESB101410	10'	14'	10'	5818
ESB1016	10'	16'	8'	6240	ESB10169	10'	16'	9'	6396	ESB101610	10'	16'	10'	6552
ESB1018	10'	18'	8'	6930	ESB10189	10'	18'	9'	7098	ESB101810	10'	18'	10'	7266
ESB1020	10'	20'	8'	7600	ESB10209	10'	20'	9'	7780	ESB102010	10'	20'	10'	7960
ESB1212	12'	12'	8'	5760	ESB12129	12'	12'	9'	5904	ESB121210	12'	12'	10'	6048
ESB1214	12'	14'	8'	6720	ESB12149	12'	14'	9'	6876	ESB121410	12'	14'	10'	7032
ESB1216	12'	16'	8'	7680	ESB12169	12'	16'	9'	7848	ESB121610	12'	16'	10'	8016
ESB1218	12'	18'	8'	8640	ESB12189	12'	18'	9'	8820	ESB121810	12'	18'	10'	9000
ESB1220	12'	20'	8'	9600	ESB12209	12'	20'	9'	9792	ESB122010	12'	20'	10'	9984

BASIC STANDARD ELECTRICAL PACKAGES:

Surface Mounted, EMT Conduit. Grounded, Duplex Outlets, One (1) Every 4' on Three Walls Standard. Fluorescent Lights (Two Bulb Fixtures) with Switch. 100 Amp 120/240 V.A.C. Main, 20 Position Breaker Box (Grounded to Skid) with 12 Single Pole 20 Amp Breakers. All Electrical Work Conforms to the National Electrical Code.

PART NUMBER	SHELTER SIZE	QTY. (1 GANG)	QTY. FLUORESCENT	WT.
		OUTLET BOXES	LIGHT FIXTURES	
ESEP88	8' x 8'	4	2 - 4'	67
ESEP810	8' x 10'	6	2 - 4'	76
ESEP812	8' x 12'	8	4 - 4'	99
ESEP814	8' x 14'	8	4 - 4'	104
ESEP816	8' x 16'	10	4 - 4'	113
ESEP818	8' x 18'	10	6 - 4'	132
ESEP820	8' x 20'	12	6 - 4'	141
ESEP1010	10' x 10'	6	2 - 4'	81
ESEP1012	10' x 12'	8	4 - 4'	104
ESEP1014	10' x 14'	8	4 - 4'	109
ESEP1016	10' x 16'	10	4 - 4'	118
ESEP1018	10' x 18'	10	6 - 4'	137
ESEP1020	10' x 20'	12	6 - 4'	146
ESEP1212	12' x 12'	8	4 - 4'	104
ESEP1214	12' x 14'	10	6 - 4'	127
ESEP1216	12' x 16'	10	6 - 4'	132
ESEP1218	12' x 18'	12	8 - 4'	155
ESEP1220	12' x 20'	14	8 - 4'	164

ELECTRICAL ACCESSORIES:

ESLC1	Load Center, 200 amp, 120/240 volt, single phase with cover	30
ESLC2	Load Center, 200 amp, 120/208 volt, three phase with cover	55
ESMTS1	Manual Transfer Switch, 100 amp, 120/240 volt, single phase	34
ESMTS2	Manual Transfer Switch, 200 amp, 120/208 volt, three phase S/N	75
ESBRK1	Breaker (Single Pole, 120 volt, 20 amp)	1/4
ESBRK2	Breaker (Two Pole, 240 volt, 20 amp)	1/2
ESRECP1	Receptacle (Hubbell #2310, Twist Lock, Single with Male Hubbell #2311 Plug, 120 volt, 20 amp)	1
ESRECP2	Receptacle (Duplex, 120 volt, 20 amp)	2
ESRECP3	Receptacle (Double Duplex, 120 volt, 20 amp)	2-1/4
ESRECP4	Receptacle - Outdoor (Duplex, Ground Fault, 120 volt, 15 amp)	2
ESGRDBAR	Copper Ground Bus Bar (1/4" x 1-1/4" x 12" Long with Holes every 1-1/2", Grounded to Skid)	4
ESARREST	Lightning Arrestor (Joslyn #J9200)	1
BGK1	Ground Rod Kit (Includes Lugs, Wire and Ground Rod)	8

NOTE: Shelter electrical packages and accessories cannot be supplied unless equipment shelter is purchased from UNR-Rohn.

Prices available upon request.

ROHN
EQUIPMENT SHELTER ACCESSORIES

PART NUMBER	DESCRIPTION	WT.
<u>AIR CONDITIONERS:</u> (Through the Wall, Single Phase with Integral Thermostat)		
ESAC5800	5,800 BTU, 120 volt	108
ESAC9500/115	9,500 BTU, 120 volt	116
ESAC9500	9,500 BTU, 240 volt	116
ESAC11400	11,400 BTU, 240 volt	116
ESAC14700	14,700 BTU, 240 volt	151
ESAC18500	18,500 BTU, 240 volt	180
ESAC22900	22,900 BTU, 240 volt	210
<u>AIR CONDITIONERS & HEAT STRIPS:</u> (Through the Wall, Single Phase with Integral Thermostat, 240 Volt)		
ESACH11400	11,400 BTU Cooling and 3.7 kw Heat Strip	117
ESACH14500	14,500 BTU Cooling and 3.5 kw Heat Strip	190
ESACH17600	17,600 BTU Cooling and 4.5 kw Heat Strip	179
(Note: Heat Strips Must Be Manually Switched From Cool Cycle)		
<u>AIR CONDITIONERS & HEAT STRIPS:</u> (Outside Wall Mounted, Single Phase, Remote Thermostat, 240 Volt)		
ESHVAC24000	24,000 BTU Cooling and 10 kw Heat Strip	310
ESHVAC31000	31,000 BTU Cooling and 10 kw Heat Strip	390
ESHVAC36600	36,600 BTU Cooling and 10 kw Heat Strip	380
ESHVAC42500	42,500 BTU Cooling and 10 kw Heat Strip	500
ESHVAC46500	46,500 BTU Cooling and 10 kw Heat Strip	510
<u>AIR CONDITIONERS & HEAT STRIPS:</u> (Outside Wall Mounted, Three Phase, Remote Thermostat, 240 Volt)		
ESHVAC36600/1	36,600 BTU Cooling and 9 kw Heat Strip	380
ESHVAC42500/1	42,500 BTU Cooling and 9 kw Heat Strip	500
ESHVAC46500/1	46,500 BTU Cooling and 9 kw Heat Strip	510
<u>AIR CONDITIONERS & HEAT STRIPS:</u> (Outside Wall Mounted, Three Phase, Remote Thermostat, 480 Volt)		
ESHVAC36600/2	36,600 BTU Cooling and 9 kw Heat Strip	380
ESHVAC42500/2	42,500 BTU Cooling and 9 kw Heat Strip	500
ESHVAC46500/2	46,500 BTU Cooling and 9 kw Heat Strip	510
<u>HEATERS:</u>		
<u>Heater Fan Forced with Remote Thermostat</u>		
ESHFFA	13,650 BTU, 4 kw, 240 Volt, Single Phase	24
ESHFFB	16,380 BTU, 4.8 kw, 240 Volt, Single Phase	24
<u>Baseboard Heater with Remote Thermostat</u>		
ESH48	48", 3,412 BTU, 240 Volt, Single Phase	14
ESH60	60", 4,265 BTU, 240 Volt, Single Phase	18
ESH72	72", 5,118 BTU, 240 Volt, Single Phase	21
ESH96	96", 6,824 BTU, 240 Volt, Single Phase	29
ESH120	120", 8,530 BTU, 240 Volt, Single Phase	35
<u>AIR CONDITIONER & HEATER ACCESSORIES:</u>		
ESACC	Air Conditioner Controller for 2 HVAC Units (Cycles units and lets both units operate, if needed)	15
ESTAT	Remote Mount Thermostat (For Through the Wall Air Conditioners)	2
<u>EXHAUST SYSTEM:</u> (Includes Fan, Motorized Louver, Remote Thermostat with Screened Exhaust Weather Hood and Metal Filter on Intake Weather Hood)		
ESEXH12	12" Exhaust (650 cfm)	32
ESEXH16	16" Exhaust (870 cfm)	39
ESEXH18	18" Exhaust (1,625 cfm), with 16" louver	50
ESEXH20	20" Exhaust (2,920 cfm)	54
ESTIMER	Recyle Timer (24 hour)	1
<u>LOW LEAKAGE EXHAUST SYSTEM:</u>		
Aluminum Direct Drive Exhaust Fan with Bird Screen, Disconnect Switch, and Motorized Damper. Low Leakage Hot Dip Galvanized Damper with Insulated Parallel Blades, Blade Seals, Jamp Linkage and Barber Coleman Motor.)		
ESLOLEAKEXH/S	18" Motorized Intake Damper and Hood with Filter (964 cfm at 1/8" static pressure)	140
ESLOLEAKEXH/L	24" Intake Damper and Hood with Filter (2,236 cfm at 1/8" static pressure)	160
<u>ALARMS:</u> (Remote Capability, Either Normally Opened or Normally Closed Contacts)		
ESALARMAC	High/Low Temperature Alarm (Consists of 2 Thermostats with 120V AC Dry Contacts)	3
ESALARMDC	High/Low Temperature Alarm (Consists of a 2 Pole Thermostat with 24V DC Dry Contacts)	1
ESALARMHUM	High/Low Humidity Alarm (Consists of 2 Humidistats 120V AC or 24V DC Dry Contacts)	4
ESSWITCH	Illegal Entry Switch (Consists of 24 Volt DC Dry Contact)	1/2
ESSMOKDET	Smoke Detector (Dry Contact)	1

NOTE: Shelter accessories cannot be supplied unless equipment shelter is purchased from UNR-Rohn.

Prices available upon request.

ROHN
EQUIPMENT SHELTER ACCESSORIES

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>WT.</u>
<u>ACCESSORIES:</u>		
ESFIREX	Fire Extinguisher (5 lbs. All Purpose Dry Chemical)	8
ESHALEX	Fire Extinguisher (5 lbs. Halon 1211)	15
ESWRKBNCH	Work Bench with Drawer (30" Long x 72" Wide x 33-1/2" High)	60
<u>LIGHTS:</u>		
ESLIGHT	Exterior Light (500 Watt with Photocell)	14
ESLIGHT/100	Exterior Light (100 Watt with Photocell, Tamperproof)	10
ESLIGHT/300	Exterior Flood Light (300 Watt with Photocell)	15
ESFLLGT4	48" Interior Fluorescent Light with 2 40 Watt Bulbs	7
ESINLGT	Incandescent Interior Light, 100 Watt	5
ESEMGLT	Emergency Light (2 Head with Charger, Batteries Included)	18
<u>WAVEGUIDE ENTRY PORTS, ALUMINUM, WITH SEAL CAP:</u>		
ESWGEP41	4" 1 Port	3/4
ESWGEP44	4" 4 Port	4-1/4
ESWGEP48	4" 8 Port	6-1/4
ESWGEP51	5" 1 Port	4/5
ESWGEP52	5" 2 Port	3-1/2
ESWGEP53	5" 3 Port	4-4/5
ESWGEP54	5" 4 Port	4-4/5
ESWGEP56	5" 6 Port	6
<u>ENTRY PORTS:</u>		
ESWGE2	2" PVC with Plug	2-1/2
ESWGE3	3" PVC with Plug	3-3/4
ESWGE4	4" PVC with Plug	5-1/2
ESWGE6	6" PVC with Plug	7-1/4
<u>CABLE TRAYS:</u>		
ESCBLTRY12	12" Aluminum Cable Tray (Ladder) with Supports (12 Feet Long)	35
ESCBLTRY18	18" Aluminum Cable Tray (Ladder) with Supports (12 Feet Long)	37
ESCBLTRY24	24" Aluminum Cable Tray (Ladder) with Supports (12 Feet Long)	39
<u>FITTINGS FOR CABLE TRAYS: (Includes Tee, Elbow, Inside Elbow, Cross, Etc.)</u>		
ESCTF12	12" Fittings with a 24" Radius	18-1/2
ESCTF18	18" Fittings with a 24" Radius	20-3/4
ESCTF24	24" Fittings with a 24" Radius	23-1/4
<u>HALON SYSTEMS:</u>		
Automatic with Cross Zone Detectors, Manual Discharge Switch, Abort Switch, Horn, Bell, Strobe Light, Control Panels with 24 Hour Battery Backup (No Reserve Capacity)		
ESAUTOHALON/45	45# Automatic Halon System (Will cover 2,184 cu. ft. at 5% concentration; 1,807 cu. ft. at 6% concentration; and 1,530 cu. ft. at 7% concentration)	180
ESAUTOHALON/85	85# Automatic Halon System (Will cover 4,126 cu. ft. at 5% concentration; 3,413 cu. ft. at 6% concentration; and 2,891 cu. ft. at 7% concentration)	285
<u>INTERIOR PANELING: (OPTION)</u>		
ESGLBD48	Glassboard Paneling with Molding (4' x 8' x 3/8")	50
ESGLBD410	Glassboard Paneling with Molding (4' x 10' x 3/8")	62-1/2
<u>INTERIOR WALL PARTITION WITH 3' INSIDE SLIDING DOOR:</u>		
ESIW88	Framing, Paneling, and Door (8' wide x 8' high)	144
ESIW89	Framing, Paneling, and Door (8' wide x 9' high)	172
ESIW810	Framing, Paneling, and Door (8' wide x 10' high)	190
ESIW108	Framing, Paneling, and Door (10' wide x 8' high)	190
ESIW109	Framing, Paneling, and Door (10' wide x 9' high)	213
ESIW1010	Framing, Paneling, and Door (10' wide x 10' high)	235
ESIW128	Framing, Paneling, and Door (12' wide x 8' high)	226
ESIW129	Framing, Paneling, and Door (12' wide x 9' high)	253
ESIW1210	Framing, Paneling, and Door (12' wide x 10' high)	280

NOTE: Shelter accessories cannot be supplied unless equipment shelter is purchased from UNR-Rohn.

Prices available upon request.

ROHN
EQUIPMENT SHELTER ACCESSORIES

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>WT.</u>
<u>EXTERIOR AND INTERIOR DOORS:</u>		
ESP3	3'0" x 7'0" Reinforced Insulated Aluminum Door, Mill Finish, with 3 Point Locking System	106
ESP147	3'6" x 7'0" Reinforced Insulated Aluminum Door, Mill Finish, with 3 Point Locking System	130
ESP32	3'6" x 8'0" Reinforced Insulated Aluminum Door, Mill Finish, with 3 Point Locking System	141
ESSDR	3'0" x 7'0" Aluminum Frame Steel Skin Door with Dead Bolt and Industrial Lock Set	83
ESID	3'0" x 6'8" Interior Sliding Door, Hollow Wood with Handle	55
<u>EXTERIOR FINISHES: (OPTION)</u>		
<u>Exterior Aggregate Siding Finish</u> - 1/16" chopped fiberglass with tan pebble rock finish (+/- 1/2" total thickness) attached to outside of shelter		
ESSIDING		1-1/2/Sq. Ft.
<u>Bullet Resistant Material</u> - Specially developed woven-roving fiberglass material laminated with a thermoset resin to be attached to exterior of shelter. The bullet resistant material meets government specifications. Available in the following resistance:		
ESBULRESM	.44 magnum	3-1/4/Sq. Ft.
ESBULRESS	.30 carbine and 12 gauge shotgun slug	5-1/4/Sq. Ft.
ESBULRESR	30.06 rifle, 7.62 mm nato ball and .223 rifle.	11-1/4/Sq. Ft.
<u>GUTTERS AND DOWNSPOUTS:</u>		
Aluminum Gutters with 4 Downspouts, Splash Blocks, and Mounting Hardware Installed on Equipment Shelter. Colors Available: Brown, Black, White, Gray, Green, Gold, Creme, Ivory		
ESGUTTER/SMALL	For 12' x 18' x 10' high or smaller shelters	
ESGUTTER/LARGE	For 12' x 20' x 10' high to 12' x 30' x 10' high shelters	
<u>ICE SHIELDS: (Galvanized Grip Strut, Roof Mounted, 4" Clearance, Rubber Anti-Shock Mounts)</u>		
ESIS88GS	For 8' x 8' Shelter	320
ESIS810GS	For 8' x 10' Shelter	400
ESIS812GS	For 8' x 12' Shelter	480
ESIS814GS	For 8' x 14' Shelter	500
ESIS816GS	For 8' x 16' Shelter	640
ESIS818GS	For 8' x 18' Shelter	720
ESIS820GS	For 8' x 20' Shelter	800
ESIS1010GS	For 10' x 10' Shelter	500
ESIS1012GS	For 10' x 12' Shelter	600
ESIS1014GS	For 10' x 14' Shelter	700
ESIS1016GS	For 10' x 16' Shelter	800
ESIS1018GS	For 10' x 18' Shelter	900
ESIS1020GS	For 10' x 20' Shelter	1000
ESIS1212GS	For 12' x 12' Shelter	720
ESIS1214GS	For 12' x 14' Shelter	840
ESIS1216GS	For 12' x 16' Shelter	960
ESIS1218GS	For 12' x 18' Shelter	1080
ESIS1220GS	For 12' x 20' Shelter	1200
<u>GENERATORS WITH AUTOMATIC TRANSFER SWITCH:</u>		
a) Generator with LPG Gas Engine, Controller, Block Heater, Battery Charger, Rack and Battery, Secondary LPG Regulator, Vibration Mounts and Circuit Breaker.		
b) Automatic Transfer Switch with Adjustable Time Delays for Power Outages and Return to Utility Power, Engine Cool Down Timer, Exerciser, Phase Sensing Relays and Test Mode Capabilities.		
c) Complete Installation and Checkout Including Exhaust Piping with Thimble, Wiring, LPG Piping through Wall with 1/2" Female Connection, Air Intake Louver, Transition Piece and Weather Hood.		
ESGEN10	10 KW Generator with 100 A, Single Phase Automatic Transfer Switch	1070
ESGEN10/3	(Same as above) with Three Phase Automatic Transfer Switch	1070
ESGEN15	15 KW Generator with 100 A, Single Phase Automatic Transfer Switch	1070
ESGEN15/3	(Same as above) with Three Phase Automatic Transfer Switch	1070
ESGEN20	20 KW Generator with 100 A, Single Phase Automatic Transfer Switch	1085
ESGEN20/3	(Same as above) with Three Phase Automatic Transfer Switch	1085
ESGEN25	25 KW Generator with 150 A, Single Phase Automatic Transfer Switch	1120
ESGEN25/3	(Same as above) with 100 A, Three Phase Automatic Transfer Switch	1120
ESGEN30	30 KW Generator with 150 A, Single Phase Automatic Transfer Switch	1170
ESGEN30/3	(Same as above) with 100 A, Three Phase Automatic Transfer Switch	1170
ESGEN36	36 KW Generator with 200 A, Single Phase Automatic Transfer Switch	1435
ESGEN36/3	(Same as above) with 150 A, Three Phase Automatic Transfer Switch	1370
ESGEN50	50 KW Generator with 225 A, Single Phase Automatic Transfer Switch	1935
ESGEN50/3	(Same as above) with 175 A, Three Phase Automatic Transfer Switch	1900

NOTE: Shelter accessories cannot be supplied unless equipment shelter is purchased from UNR-Rohn.

Prices available upon request.

GENERAL SPECIFICATIONS FOR
STANDARD ROHN EQUIPMENT SHELTERS

1.0 Scope

The specifications contained herein encompass the labor, equipment, and materials for the fabrication of a transportable, prefabricated equipment shelter.

The shelter shall be designed for the explicit use of housing electronic equipment, measuring devices and related components, within a controlled atmosphere required for the proper operating conditions for the equipment.

2.0 General

2.1 Shelter Type

The shelter shall be preassembled and fiberglass coated.

2.2 Shelter Size

Size and dimensions shall be specified per the following:

Width and length shall be to outside of finished walls. Width is either 8' 0", 10' 0", or 12' 0". Length shall be from 6' 0" to 30' 0", as specified by customer, in 2' increments.

Height shall be 8' 0" from finished floor to finished ceiling measured inside. Other interior heights available to customer specifications.

Variations to standard sizes may necessitate a price and/or delivery adjustment.

2.3 Operating Environment and Control

The shelter shall be dust proof, air tight, and watertight.

The optimum operating range of the equipment to be installed shall be assumed to be 78 degrees F. (25.6 degrees C.) unless otherwise specified by the Purchaser. The heating and cooling requirements for a shelter shall be based upon the outside ambient temperatures and equipment operating heat output specified by the Purchaser.

3.0 Structural

3.1 Skid

Two (2) full lengths of 6" steel structural channel (8.2 lbs. per ft.) extending approximately 6" beyond the ends of the shelter with lift eyes in each end of the channel with two (2) or more cross braces of 3" pipe, maximum spacing 84".

Skid components, including hardware, shall be hot dip galvanized after fabrication.

Skid shall be attached to the shelter with 1/2" x 5" lag bolts.

3.2 Floor Section

The floor shall be of sandwich fabrication with 4 x 4 wood joists spaced at 16" on center. Voids between joists shall be filled with 3-1/2" thick fiberglass insulation with vapor shield (R value = 11). Shelter shall be laminated on both sides (see drawing) with 3/4" exterior A/C grade plywood (smooth face out) or waferboard.

The exterior surface shall be covered with 1/8" of polyester/fiberglass composite with a 15 mil minimum thickness gelcoat polyester enamel.

The interior surface shall be covered with a 1/8" x 12" x 12" square vinyl floor covering, bonded with a waterproof contact adhesive.

3.3 Wall Sections

The frame shall consist of a 2 x 4 wood box frame with 2 x 4 studs spaced 16" on center. Voids between studs shall be filled with 3-1/2" fiberglass insulation with a vapor shield (R value = 11).

The exterior shall be covered with 3/8" exterior grade waferboard.

The interior shall be covered with 1/4" light colored wood paneling with moldings on corners. Floor/wall intersections shall be finished with 4" vinyl baseboard.

3.4 Ceiling

The shelter ceiling shall be 3/8" wood substrate textured white with moldings on corners.

3.5 Roof Section

The roof section shall be constructed of 2 x 6 or heavier rafters at 16" on center and sloped at 1/2" per foot minimum from the center. Void areas between rafters shall be filled with 6" thick fiberglass insulation with a vapor shield (R value = 19). The exterior shall consist of 1/2" minimum exterior grade waferboard.

3.6 Finish

The entire exterior of the shelter shall be thoroughly coated with 1/8" of polyester resin and chopped fiberglass composite (1/4" thick on roof). Resin shall be pigmented tan and stabilized for ultraviolet protection. Final finish shall consist of 15 mil minimum gelcoat polyester enamel with tan pigment and ultraviolet stabilizers. Colors other than tan are available at an additional cost.

Openings shall be fiberglassed to the interior of the shelter. Corners shall be rounded and voids shall be filled with polyester compound and sanded prior to fiberglassing to avoid delamination.

3.7 Door

The shelter shall have one (1) prehung, gasket sealed, insulated, 3' wide by 7' high, aluminum frame galvanized steel door with white baked enamel finish; door check; door stop; keyed lock set and dead bolt, keyed alike.

4.0 Thermal

Insulation shall be non-combustible fiberglass bat with vapor barrier in accordance with ASTM E-136. Insulation shall conform to the performance requirements of Federal Specifications HH-1-52F and DOERCS. Wall and floor thickness shall be 3-1/2" (R11 Rating). Roof thickness shall be 6" (R19 Rating).

5.0 Electrical

Electrical installation and wiring shall conform to the latest edition of the National Electric Code and shall consist of the following as a minimum: Surface mounted, EMT conduit. Grounded, duplex outlets, one (1) every 4' on three walls standard. Fluorescent lights (two bulb fixtures) with inside switch. 100 amp 120/240 vac main, 20 position breaker box (grounded to skid) with 12 single pole 20 amp breakers.

(Note: 230 volt, 50 cycle with incandescent lights available upon request.)

6.0 Design Loading

6.1 Shelter shall be designed for the following loading:

Floor - Per ANSI A.58.1 Uniform Distributed Load - 200 lbs. per square foot
Per ANSI A.58.1 Concentrated Load - 500 lbs. per square foot
Roof - Per ANSI A.58.1 Roof Snow Load Specification - 100 lbs. per square foot
Wind - Per ANSI A.58.1 Basic Wind Speed Specification - 130 MPH

7.0 Additional Provisions

7.1 Special Designs and Options Available Upon Request.

7.2 Totally Engineered "Turn Key" Systems Available Upon Request.

7.3 Items extending beyond the shelter that will exceed legal shipping widths and/or heights, including air conditioners, hoods, etc., shall be prefitted and packed inside the shelter for shipment. These items shall be installed in the field by others unless otherwise indicated.

7.4 Rohn's liability on products purchased and installed in shelters will not exceed the limit of the warranty provided by the product manufacturer.

7.5 Shelters are F.O.B. Birmingham, Alabama. Delivery costs are based on normal accessible installation sites. Special handling equipment (i.e. helicopter, crane, etc.) or special local permits or requirements are not included in delivery cost. Off loading of shelters from shipping equipment is the responsibility of others unless otherwise stated in the proposal.

7.6 Freight quotes are firm for 30 days. Additional mileage charges will be invoiced when site location is farther than Purchaser specified location. Promised delivery date for oversized shelters that require special trailers will be subject to availability of equipment from freight company. Purchaser shall be responsible for additional charges when an alternate freight company is specified by the Purchaser.

7.7 Quotes for source inspection and individual state approval are available upon request.

By: Rohn
6718 West Plank Road (61604)
P. O. Box 2000
Peoria, IL, USA 61656
Ph. 309-697-4400
TWX: 910-652-0646
FAX: 309-697-5612

NOTES:

- 1) EXTERIOR OF SHELTER SHALL BE COATED WITH 1/8" OF FIBERGLASS COMPOSITE ON WALLS AND BOTTOM OF FLOOR, 1/4" ON ROOF, FINISHED SMOOTH WITH TAN GELCOAT 15 MIL THICK ALL EXTERIOR CORNERS TO BE RADIUSSED AND ALL VOIDS FILLED PRIOR TO FIBERGLASS APPLICATION.
- 2) HEIGHT FROM FINISHED FLOOR TO CEILING IS 8'-0" (UNLESS OTHERWISE SPECIFIED) LENGTH AND WIDTH DIMENSIONS TO OUTSIDE OF FINISHED WALLS.
- 3) STANDARD ELECTRICAL PACKAGE:
 - 60A MAIN 20/240VAC 1Ø, 2Ø POSITION LOAD CENTER (GROUNDED TO SKID), WITH 12 20A 1POLE BREAKERS.
 - 3/4" EMT CONDUIT.
 - DUPLEX RECEPTACLES (120V, 20A, GROUNDED) ON 4' CENTERS, THREE WALLS.
 - 40W 2 BULB FLOURESCENT STRIP FIXTURES.
- 4) SKID CONSTRUCTION-TWIN 6" STRUCTURAL CHANNELS (8.2#) WITH 3" TUBULAR CROSSMEMBERS.
- 5) DESIGN LOAD SPECIFICATIONS:
 - FLOOR - 200 LBS./SQ.FT. WITH A CONCENTRATED LOAD OF 500 LBS./SQ.FT.
 - ROOF - PER ANSI A58.1 ROOF SNOW LOAD SPEC-100 LBS./SQ.FT.
 - WIND - PER ANSI A58.1 BASIC WIND SPEED SPEC-130 M.P.H.

1/2" EXTERIOR SHEATHING

6" FIBERGLASS INSULATION W/ VAPOR BARRIER R19

ROOF FRAME SECTION, 2x6 RAFTERS @ 16" O.C., SLOPE IS 1/2" IN 12" MIN. (FROM CENTER)

3/8" WHITE SHEATHING

3/8" EXTERIOR SHEATHING

3x7" INSULATED ALUMINUM FRAMED WHITE BAKED ENAMEL STEEL DOOR WITH DEAD-BOLT AND LOCKSET KEYS ALIVE

1/2" EXTERIOR SHEATHING

DOUBLE TOP PLATE
3/8"x5" LAG SCREW/FLAT WASHER
3 STUD CORNER POST
TOTAL WALL THICKNESS IS 4 1/2"

1/2" PREFINISHED PANELING

3/8"x5" LAG SCREW
3/8" FLAT WASHER

1/2" VINYL FLOORING

4" BASEBOARD MOULDING

REFLECTED FLOOR TRIM

SKID
(SEE NOTES FOR DETAILS)

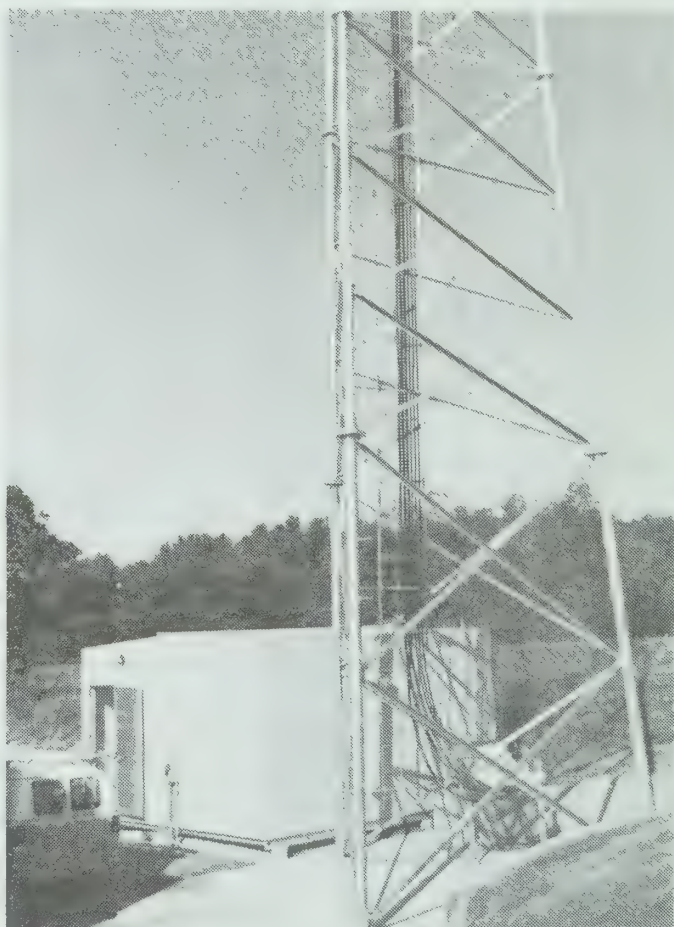
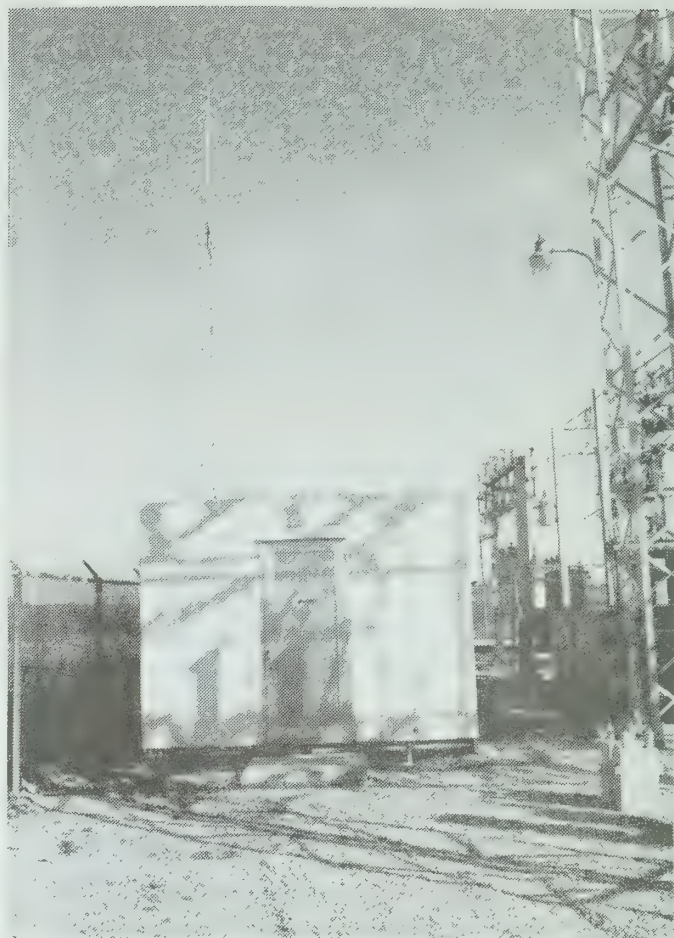
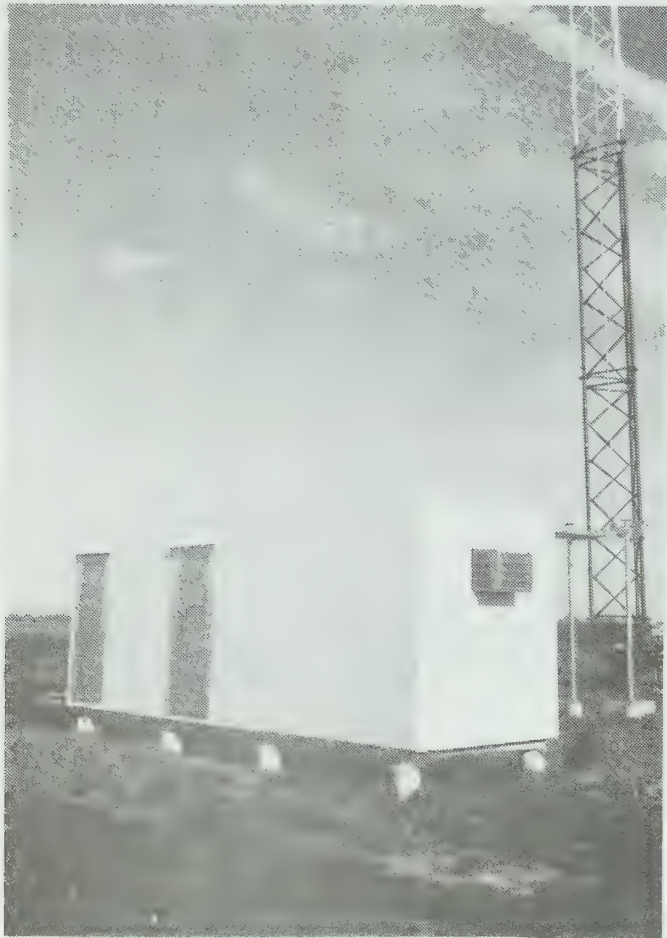
1/2" PLYWOOD/WAFERBOARD
FLOOR FRAME SECTION
4x4 JOISTS ON 16" CENTERS

UNR-Rohn
Division of UNR Inc.

STANDARD EQUIPMENT SHELTER
CONSTRUCTION FEATURES

Model	UNR-1000R REF (N/A)	Capacity	1000 LBS. (454 KG)
Dimensions	10' x 10' x 8' 6"	Weight	1000 LBS. (454 KG)
Material	Steel	Finish	White
Foundation	Concrete	Roof	Asph/Flt
Accessories	None	Options	None
Manufacturer	UNR-Rohn	Country of Origin	USA

DB40220 R0



EQUIPMENT LIST

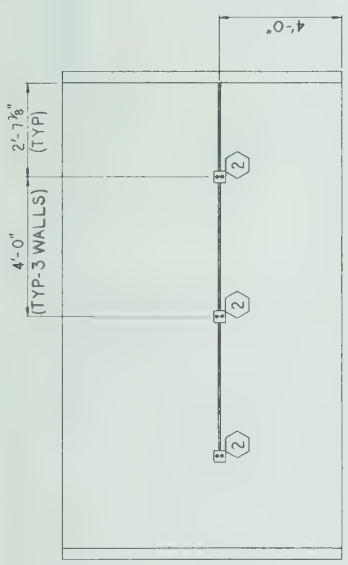
ITEM NO.	QUAN.	DESCRIPTION
1	1	LOAD CENTER
2	1	A/C UNIT, W/INTEGRAL THERMOSTAT
3	1	HEATER, W/INTEGRAL THERMOSTAT
4	70'	CONDUIT, 3/4" EMT
5	4	LIGHT, 48" 2-BULB FLOURESCENT
6	8	RECEPTACLE, DUPLEX
7	1	DOOR, W/KEYED LOCK SET AND DEAD BOLT KEYED ALIKE

NOTES:

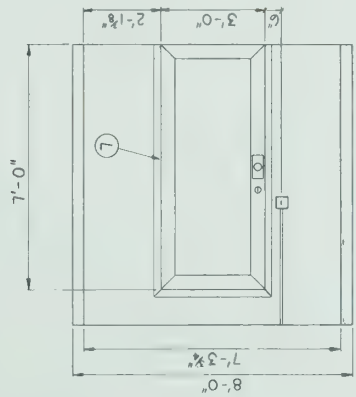
- 1) STANDARD INTERIOR IS 1/4" PREFINISHED LIGHT COLOR WOOD PANELING.
- 2) EXTERIOR WALL IS PROTECTED WITH 3/8" EXTERIOR INTERIOR FLOOR 3/4" AND ROOF 1/2" WAFERBOARD COATED WITH A 1/8" MONOLITHIC FIBERGLASS SHELL (1/4" FIBERGLASS ON ROOF)
- 3) ROOF PITCH IS 1/2" PER FOOT.
- 4) STANDARD CONDUIT IS 3/4" EMT WITH BEND RADIUS OF 5" MINIMUM.
- 5) TYPE OF SERVICE ENTRY REQUIRED SHOULD BE SPECIFIED WITH ORDER.
 - A. THROUGH WALL.
 - B. WEATHERHEAD.
- 6) NO MORE THAN THREE DUPLEX RECEPTACLES SHALL BE PLACED ON ANY ONE BRANCH CIRCUIT.
- 7) STANDARD ELECTRICAL EQUIPMENT AND LAYOUT FOR OPTIONAL STANDARD ELECTRICAL PACKAGES. CUSTOMER MAY SPECIFY DIFFERENT LAYOUT.

* - OPTIONAL EQUIPMENT

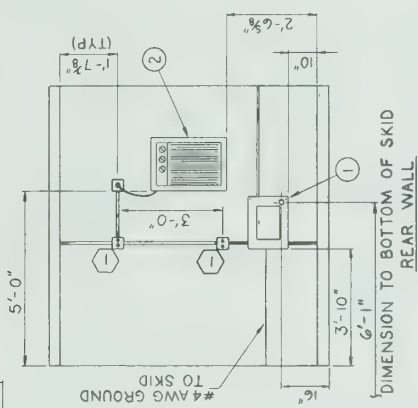
○ - INDICATES CIRCUIT GROUPING



LEFT WALL

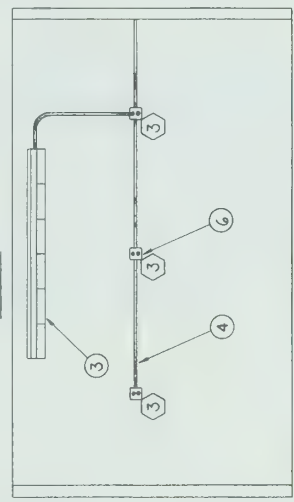


FRONT WALL

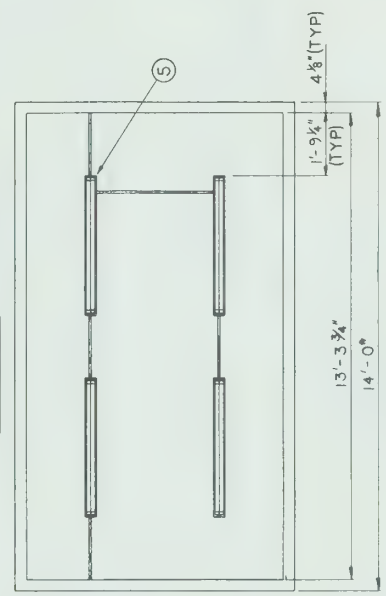


REAR WALL

FLOOR



RIGHT WALL



CEILING

No. Revision Description Date By

UNR-Rohn
Division of UNR, Inc.

Title: **ROHN EQUIPMENT SHELTERS**

Standard Interior Layout for 8'x14' Shelter

Scale: 3/8" = 1'-0" (FOR REF ONLY)

Drawn by: RAP Date: 4-12-84

Checked by: GCP Date: 4-23-84

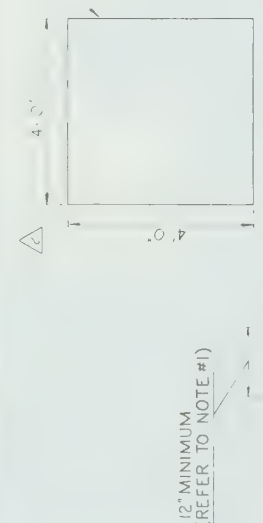
Approved by Engineering: KLP Date: 4-24-84

Approved by Production: Date:

Approved by Sales: Date:

Drawing Number: **C840208 R0**

OPTIONAL 4' x 4' x 4' T-HK
WIRE FABRIC REINFORCED
CONCRETE STOOP
(LOCATION DETERMINED
BY POSITION OF DOOR)



12" MINIMUM
(REFER TO NOTE #1)

TYPICAL:
4-#5 VERTICAL RE-BARS,
W/ #3 LATERAL TIES @ 12"
O.C. MAX., OR 6x6-8/8
WIRE FABRIC, 3' MIN.

PIERS MAY BE
ROUND OR
SQUARE



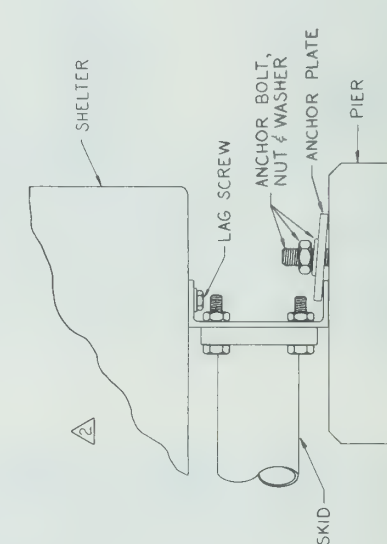
AGGREGATE

SECTION A-A
PIER DETAIL

NOTES:

- 1) PIER SPECIFICATIONS MAY VARY DUE TO SOIL CONDITIONS OR BUILDING CODES. IT IS THE CUSTOMER'S RESPONSIBILITY TO CHECK LOCAL, STATE, AND FEDERAL CODES AND ASSURE CONFORMITY.
- 2) ALL FORMS MUST BE REMOVED FROM CONCRETE PRIOR TO PLACING COMPACTED BACKFILL.
- 3) CONCRETE - 3,000 PSI MINIMUM ULTIMATE STRENGTH @ 28 DAYS.
- 4) THE TOPS OF THE PIERS MUST BE LEVEL & EVEN WITH EACH OTHER TO WITHIN $\pm 1/16"$ TOLERANCE.
- 5) FOUNDATION PLANS FOR SHELTER SIZES NOT LISTED, WILL BE ISSUED WITH SHELTER APPROVAL DRAWING.

- * - PIERS FOR 12'W SHELTER
- + - FOUR ROWS OF PIERS
- O - FIVE ROWS OF PIERS
- Δ - SIX ROWS OF PIERS



ANCHOR DETAIL

SHELTER SIZE (W x D x L x H)		DIMENSIONS			
A	B	C	D	E	
8'10" x 8'	6'-0"	3'-0"	7'-2"	7'-6"	
8'10" x 10'	8'-0"	4'-0"			
8'10" x 12'	10'-0"	5'-0"			
8'10" x 14'	12'-0"	6'-0"			
8'10" x 16'	14'-0"	7'-0"			
8'10" x 18'	16'-0"	8'-0"			
8'10" x 20'	18'-0"	9'-0"			
8'10" x 22'	20'-0"	10'-0"			
8'10" x 24'	22'-0"	11'-0"			
8'10" x 26'	24'-0"	12'-0"			
8'10" x 28'	26'-0"	13'-0"			
8'10" x 30'	28'-0"	14'-0"			
8'10" x 32'	30'-0"	15'-0"			
8'10" x 34'	32'-0"	16'-0"			
8'10" x 36'	34'-0"	17'-0"			

SHELTER SIZE (WIDTH x LENGTH)		DIMENSIONS			
A	B	C	D	E	
12' x 12'	10'-0"	5'-0"	11'-0"	5'-6"	
12' x 14'	12'-0"	6'-0"			
12' x 16'	14'-0"	7'-0"			
12' x 18'	16'-0"	8'-0"			
12' x 20'	18'-0"	9'-0"			
12' x 22'	20'-0"	10'-0"			
12' x 24'	22'-0"	11'-0"			
12' x 26'	24'-0"	12'-0"			
12' x 28'	26'-0"	13'-0"			
12' x 30'	28'-0"	14'-0"			
12' x 32'	30'-0"	15'-0"			
12' x 34'	32'-0"	16'-0"			
12' x 36'	34'-0"	17'-0"			

R2	ADDED OPTIONAL CONCRETE STOOP AND ANCHOR DETAIL.	6-17-85	RAP
R1	CHG'D 12'W WIDTH DIMENSIONS & ADDED SHELTER SIZES.	3-29-85	RAP

No. **▲** Revision Description **▲** Date **▲** By **6**

UNR-Rohn
Division of UNR, Inc.

**FOUNDATION PLAN FOR STANDARD
8'10' & 12' WIDE SHELTERS**

Scale: $3/4" = 1'-0"$ (REF. ONLY)

Unless otherwise specified, dimensions are given in inches.

Drawn by: **RAP** Date: **9-17-84**

Checked by: **CLP** Date: **9-17-84**

Approved by Engineering: **CLP** Date: **9-17-84**

Approved by Production: **CLP** Date: **9-17-84**

Approved by Sales: **CLP** Date: **9-17-84**

File Number: **C840239 R2**

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

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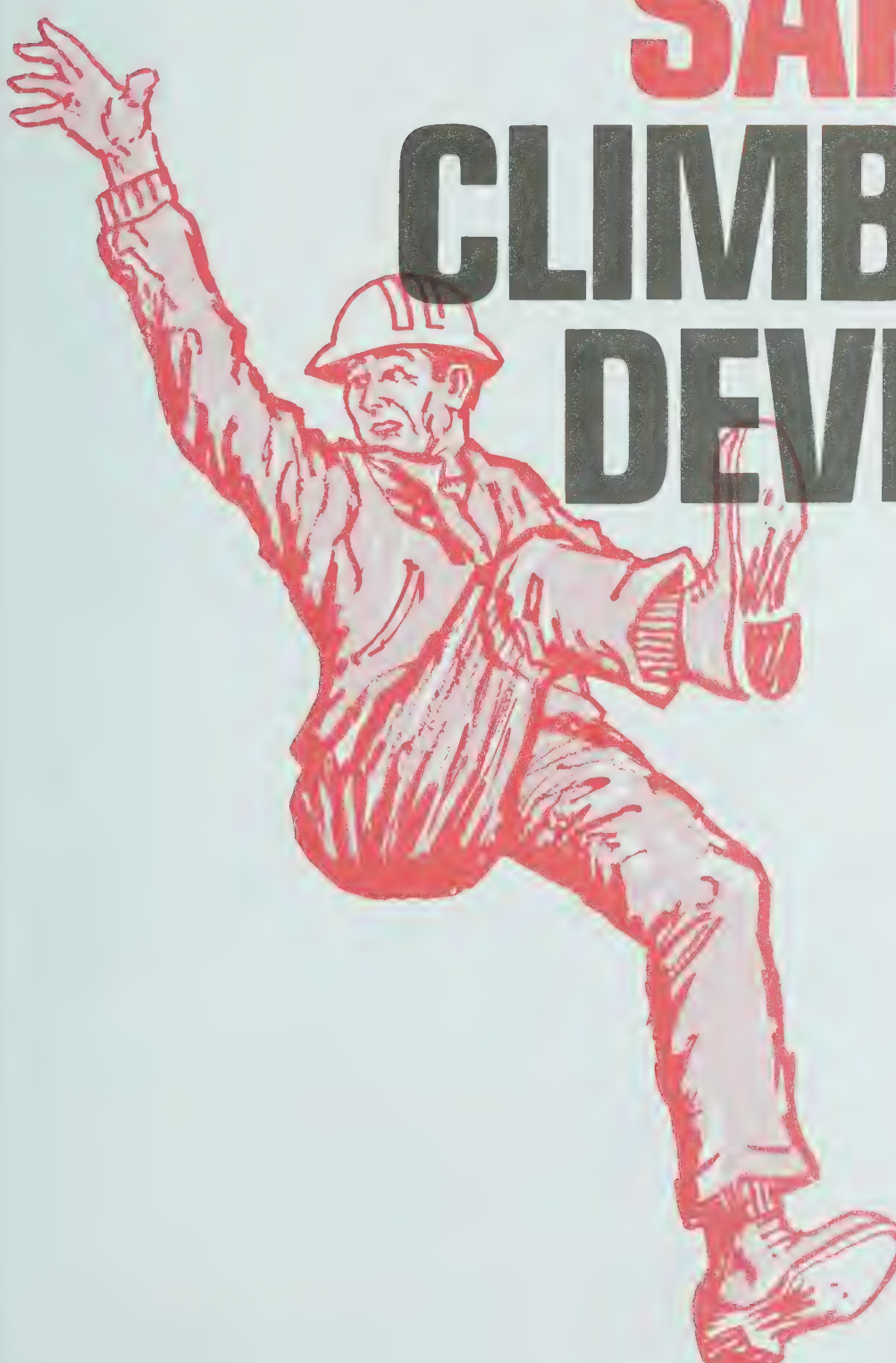
ADVANCED DESIGN

ROHN-LOC[®]

SAFETY CLIMBING DEVICES

**with
special
unique
features**

that offer more
advantages
than any other
fall prevention
device!



✓ Check for Yourself... **ROHN-LOC® SAFETY**

TOP
SAFETY
CABLE
BRACKET

■ Have Outstanding Simplicity

ROHN-LOC is a new, modern-design safety device that best solves the need for a fool-proof, always-available safety device for climbers of ladder or step-bolt equipped structures of all kinds.

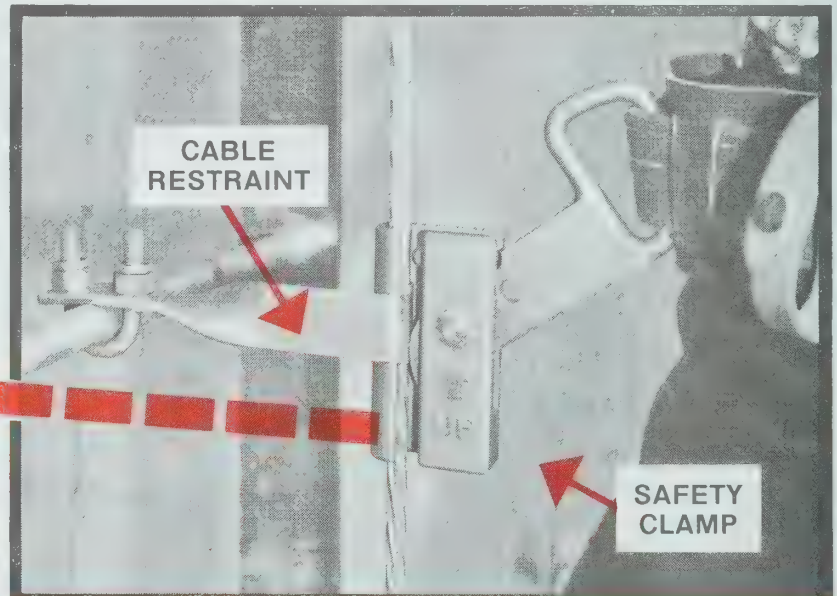
HOW IT WORKS:

The top safety cable bracket is attached to the top most part of the structure with the bottom safety cable bracket at the very bottom, which firmly secures a $\frac{3}{8}$ " steel cable. The workman then puts on the ROHN-LOC Safety Belt with the permanently attached Safety Clamp. He is now able to safely climb the entire length of the cable, securely anchored to it to prevent injury if he should slip or fall. With the ROHN-LOC, he is instantly gripped and secured *without any free-fall whatsoever*, unlike some other devices.

There are cable restraints attached through the cable, then mounted onto the ladder (or structure) at appropriate distances along the cable to keep it rigid, even in a high wind.

The top safety cable bracket further serves as a climbing extension with permanently attached hand grips for workman to use in moving onto a platform or away from the ladder itself.

BOTTOM
SAFETY
CABLE
BRACKET

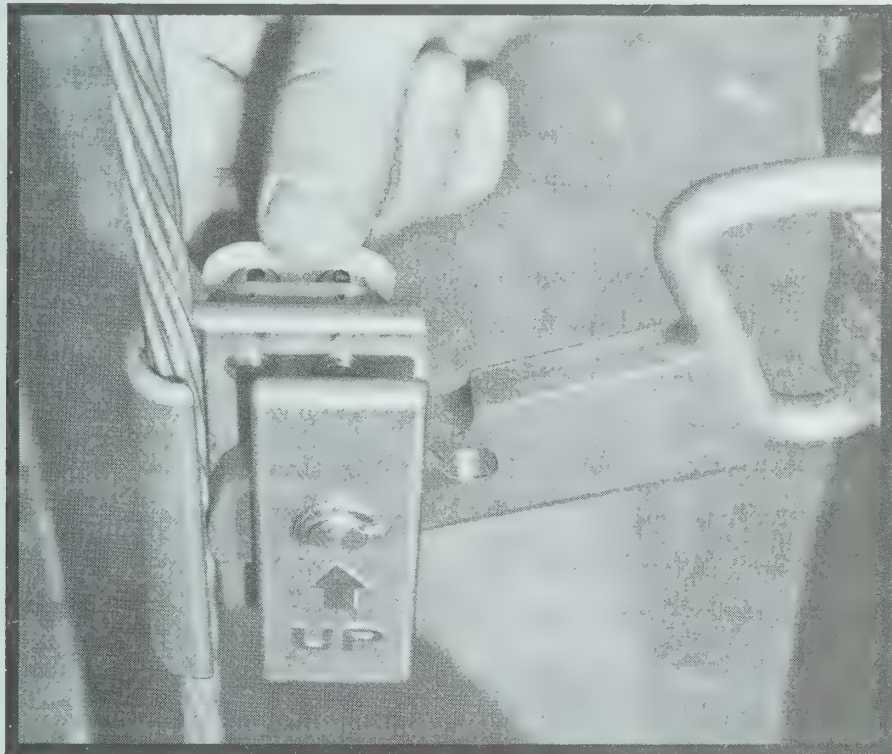


Note attachment of the Safety Clamp securely to the steel cable and how the Safety Clamp slides easily and readily through the cable restraints. Safety Clamp cannot be separated from the cable without pulling the double-lock (see next photo). Also, there is no disassembly of Safety Clamp in any manner if workman wishes to move from one cable and attach onto another. Note also that the Safety Clamp is permanently anchored to the Safety Belt.

CLIMBING DEVICES



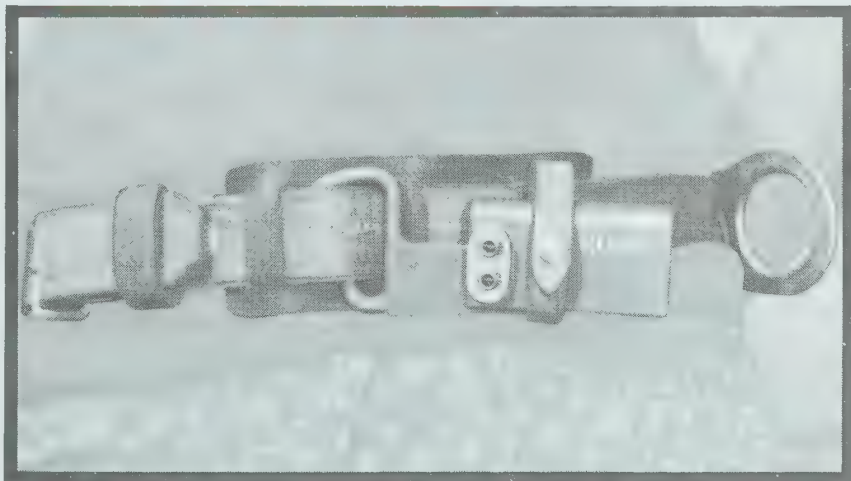
■ Fool-proof Design!



Note the double-lock that activates the Safety Clamp. Once locked in position for use, the Clamp cannot be removed or come off the $\frac{3}{8}$ " steel cable. Carefully note the positive gripping action of the Clamp against the cable. This means instant security for the workman should anything happen. When Safety Clamp is not in use, the lock holds it in a folded position out of the way on the Safety Belt.

the **SAFETY** Belt

The heavy duty Safety Belt is a combination $1\frac{3}{4}$ " woven nylon web, mildew-resistant belt with elk-tanned leather. Available with added nylon cushion pad for back support, if desired. Nylon webbed belt meets U. S. Government specifications and the existing and proposed ANSI Standards and OSHA requirements. Belt holds workman always in an upright position should he even lose consciousness. Small leather tie-belt with strong snap fastener keeps Safety Clamp securely in place and completely out of the way when not in use . . . yet is available for instant use at all times when needed. Standard "D" ring encircles nylon belt for secure attachment . . . yet is removable, if desired.



■ **ROHN-LOC** is just what the industry demands . . . simple, fool-proof design with every desired feature, for complete safety. Instructions must be noted precisely to insure safe use.

✓ *Check these Features*
AND SPECIFICATIONS
of the NEW
ROHN-LOC[®]
SAFETY
CLIMBING
DEVICES ...

- ✓ Safety Clamp completely made of No. 303 stainless steel.
- ✓ Gripping action of Safety Clamp is such that it securely grips in spite of grease, water or ice on the cable.
- ✓ The Safety Clamp is always available and ready for use when the Safety Belt is on; saves time, adds efficiency, and makes for easy "hook-up" at all times.
- ✓ Cable restraints hold line steady even in heavy wind; bottom safety cable bracket designed to keep cable taut with passage of time.

Do not install towers or masts near power lines. All towers or masts should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

UNR-Rohn recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local or national codes.

The mixing of so-called interchangeable copies of Rohn towers with Rohn towers is dangerous and voids all engineering or warranty data supplied by UNR-Rohn. Materials used by the so-called copies are not the same quality and have not been tested or engineered by UNR-Rohn to conform to the same quality standards. Mixing of non-Rohn items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

- ✓ Safety Clamp slides pass cable restraints easily; never has to be removed while working along entire length of cable.
- ✓ Safety Clamp attaches to steel cable by merely pulling the locking-pins, which allow unit to open and be attached to the cable. When pin is locked, workman is secured to the cable, all without any disassembly or use of tools of any kind. Safety Clamp can be moved from cable to cable without taking anything apart whatsoever.
- ✓ Safety Clamp is "X-rayed" to insure against material defects and carefully checked before shipment.

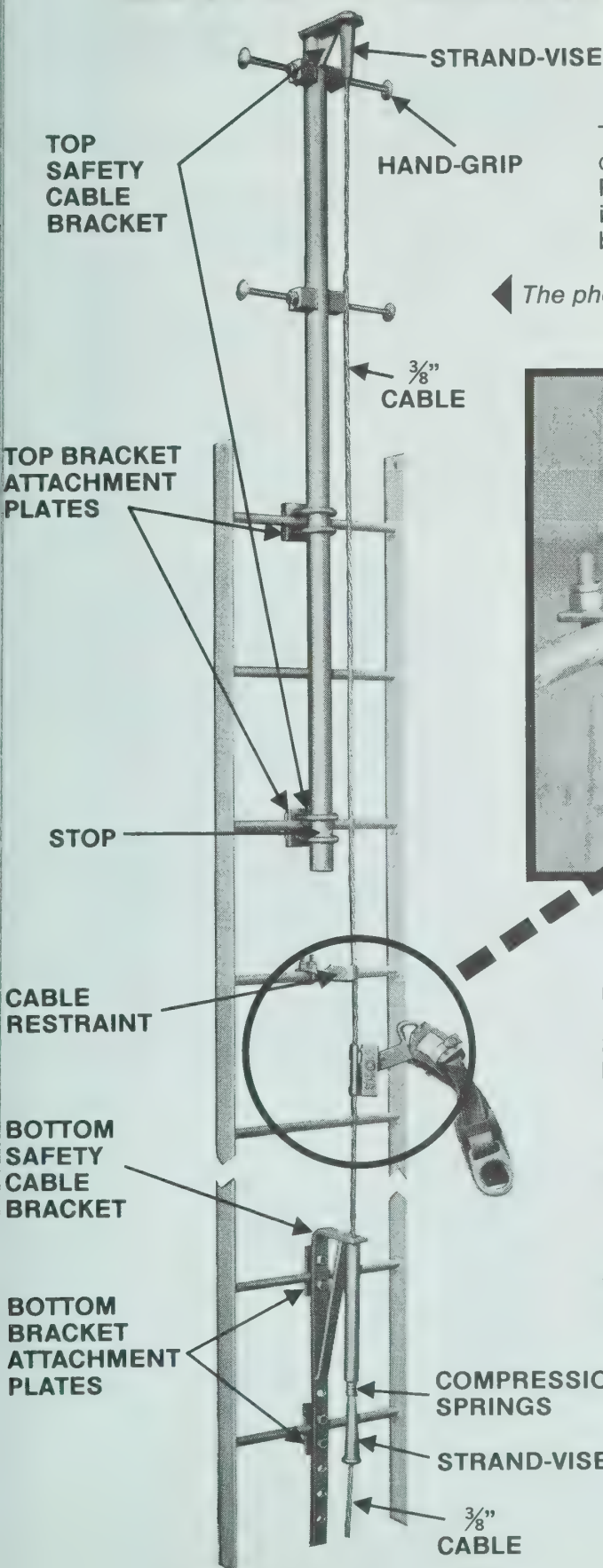
- ✓ Top and bottom safety cable brackets are completely hot dip galvanized.
- ✓ ROHN-LOC Safety Devices can be installed on any structure under construction or already built and can be used to any height and practically every type structure in existence.
- ✓ Adaptors available for use on tubular or angle tower legs, fixed ladders, step-bolts, steel and wood poles, bridges, water towers, tanks, etc.

■ **TO ORDER SEE CATALOG
FOR PART NUMBERS —
GIVE HEIGHT REQUIRED
AND TYPE OF STRUCTURE.**



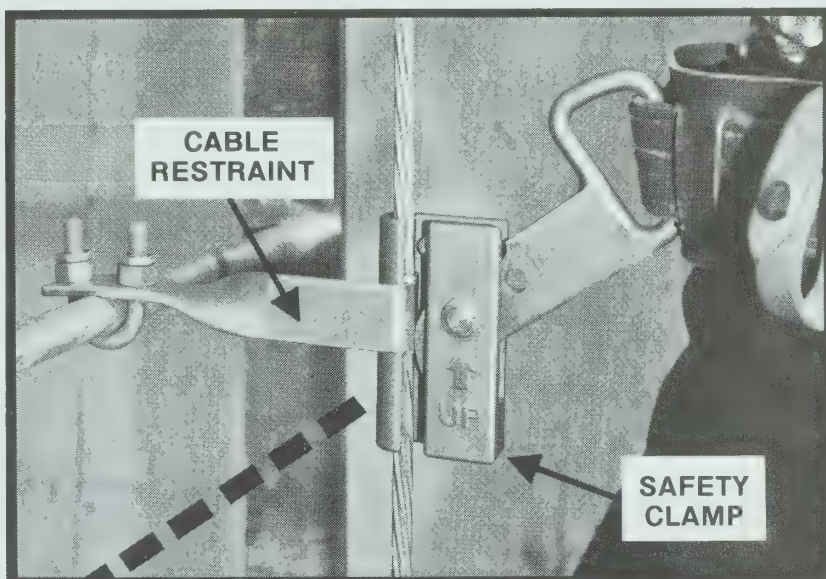
Division of UNR, Inc.
6718 West Plank Road, P.O. Box 2000
Peoria, Illinois 61656

ASSEMBLY INSTRUCTIONS AND PARTS FOR **ROHN-LOC[®]** SAFETY CLIMBING DEVICES



The ROHN-LOC Safety Climbing Device is a life saving device. It's effectiveness depends on proper installation. Please take time to study these instructions and determine in advance just how each piece will be put in place before beginning.

◀ The photograph shown here is a typical installation:



CABLE RESTRAINTS—

The cable restraint is intended to keep the cable steady in the wind.

Recommended spacing is approximately every 20 feet but not over 30 feet. A cable restraint should also be located at any point where the slope of the cable changes.

The restraint must be slid on the cable so that the cable is to the right of the arm. Masking tape can be used to keep the restraint in position on the cable while the cable is being installed.

MEETS
OSHA
SPECIFICATIONS
AND
STANDARDS

Patent No. 3,908,791

ROHN-LOC®

SAFETY CLIMBING DEVICES

INSTRUCTIONS & PARTS ASSEMBLY CONTINUED:

Close-up of Top Safety Cable Bracket & Attachment Plates—

The top safety cable bracket should be installed at the top of the climbing facility, as shown in the photographs.

For greatest strength, it is suggested that the top and third ladder rung be used to secure the bracket. *Ladder must be of sufficient strength to maintain safety cable and bracket.* It is advisable to carefully inspect the ladder rungs to be sure they will adequately support the top bracket. When installing, sufficient bracket should protrude above climbing facility to allow climber to maneuver.

■ Note installation of attachment plates.

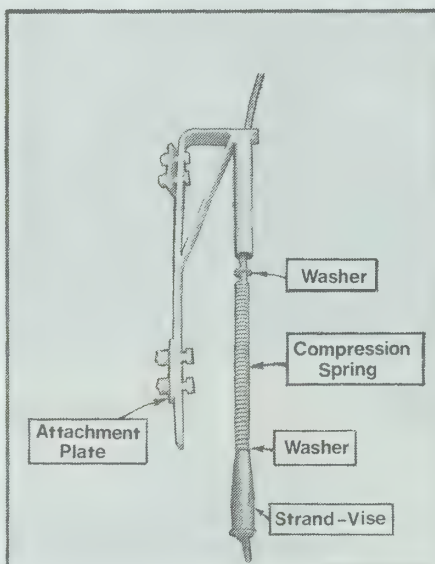
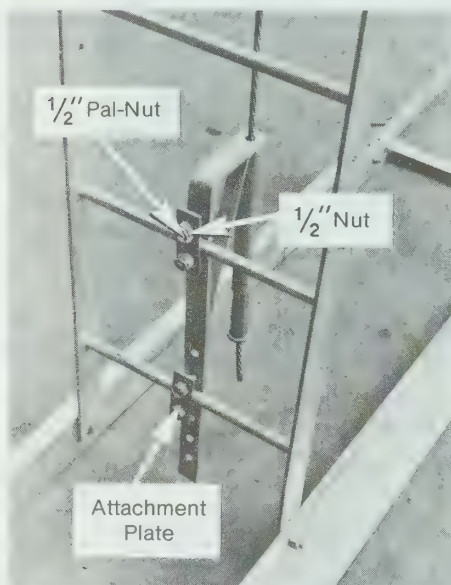
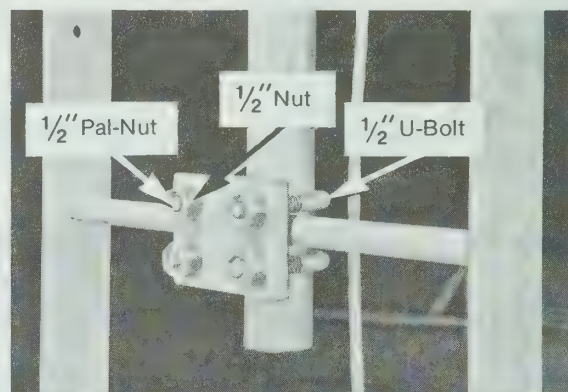
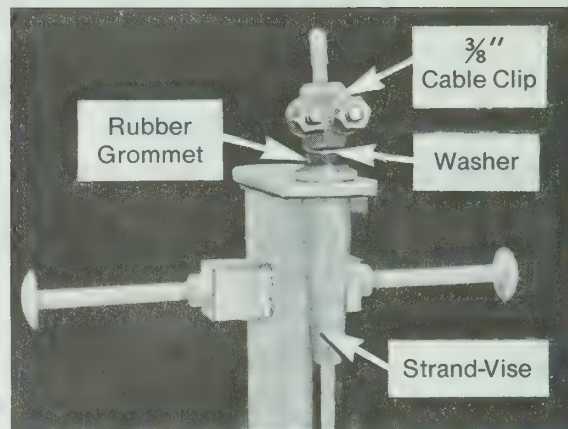
Close-up of Bottom Safety Cable Bracket—

The bottom safety cable bracket should be located on the last two rungs of the ladder.

It is used to secure the cable at the bottom of the ladder and also to keep the cable in tension.

Assemble the parts as shown on the exploded photograph of the assembly.

Apply final and full tension by tilting the bracket at an angle and pushing the bracket against the bottom rung. For proper tension, the spring should be even with the tip of the tube of the bracket. (note photo)



CABLE—

Cable should be uncoiled as illustrated. "kinks" in the cable will make climbing difficult, if not impossible. Also, the cable must be straight for sliding into the cable restraints.

NOTE: The entire safety climbing system must be periodically inspected and properly maintained, minimum once yearly.



UNR-Rohn
Division of UNR, Inc.
6718 West Plank Road
Peoria, Illinois 61601

ROHN-LOC SAFETY CLIMBING DEVICES

(For Use with Step Bolts or Leg or Face Mounted Ladder)

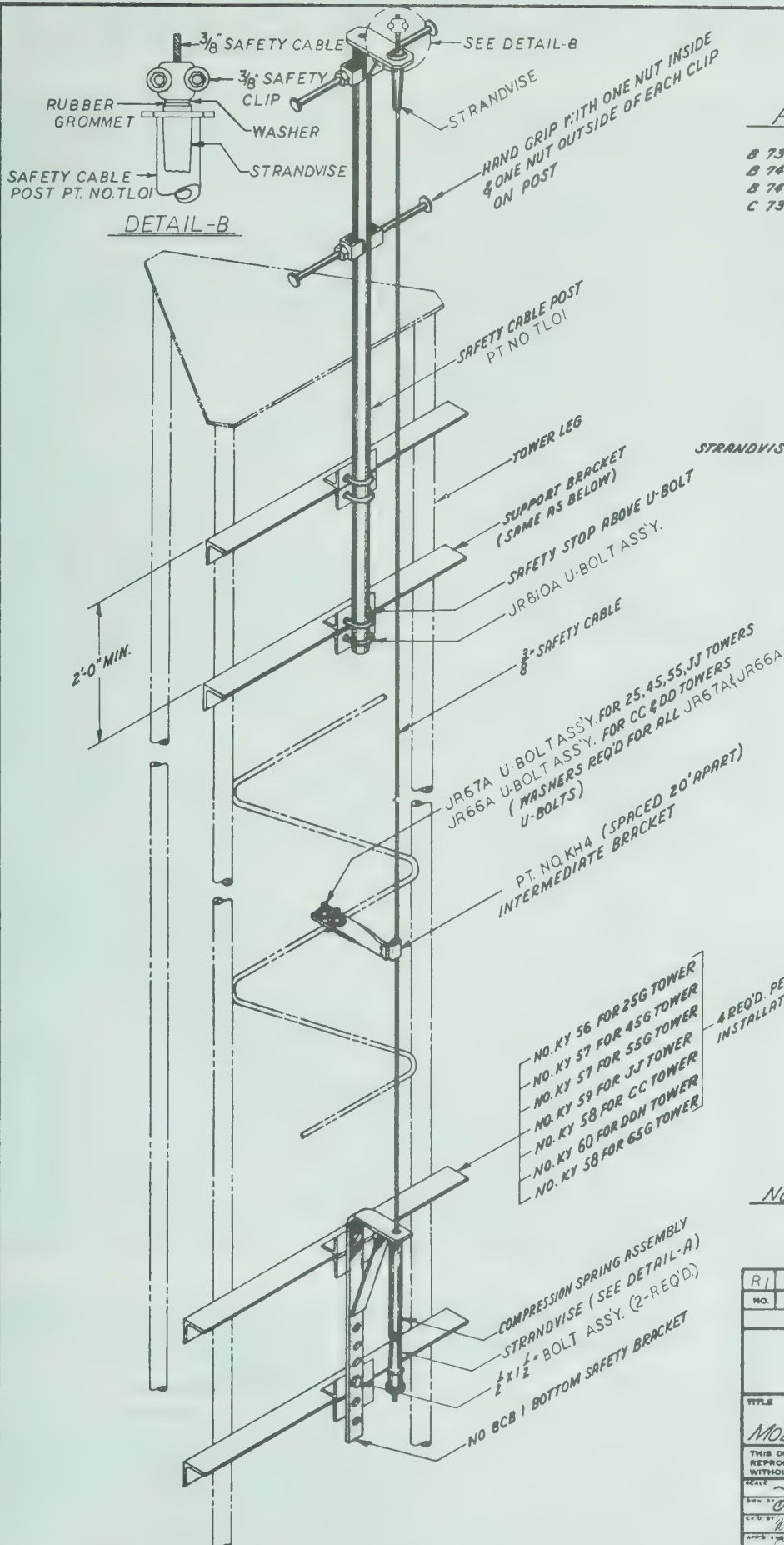
<u>PART NO.</u>	<u>NUMBER OF RESTRAINERS</u>	<u>WT.</u>	<u>PART NO.</u>	<u>NUMBER OF RESTRAINERS</u>	<u>WT.</u>
RL020	0	106	RL310	15	343
RL030	1	119	RL320	15	346
RL040	1	122	RL330	16	359
RL050	2	135	RL340	16	362
			RL350	17	375
RL060	2	138	RL360	17	378
RL070	3	151	RL370	18	391
RL080	3	154	RL380	18	394
RL090	4	170	RL390	19	407
RL100	4	173	RL400	19	410
RL110	5	183	RL410	20	423
RL120	5	186	RL420	20	426
RL130	6	199	RL430	21	449
RL140	6	202	RL440	21	452
RL150	7	215	RL450	22	455
RL160	7	218	RL460	22	458
RL170	8	231	RL470	23	471
RL180	8	234	RL480	23	474
RL190	9	247	RL490	24	483
RL200	9	250	RL500	24	490
RL210	10	263	RL510	25	503
RL220	10	266	RL520	25	506
RL230	11	279	RL530	26	519
RL240	11	282	RL540	26	522
RL250	12	295	RL550	27	529
RL260	12	298	RL560	27	532
RL270	13	321	RL570	28	561
RL280	13	324	RL580	28	564
RL290	14	327	RL590	29	567
RL300	14	330	RL600	29	570

Complete kit includes one belt, one clamp, necessary restrainers, top and bottom attachment, correct amount of 3/8" cable to reach the top of the ladder, and necessary nuts, bolts and U-bolts. Individual part numbers are as follows:

RLB**	Rohn-Loc Belt (Includes Belt, D-Ring and Clamp Pad)	2
RLSC	Rohn-Loc Safety Clamp	3
RLBSC**	Rohn-Loc Belt and Safety Clamp	5
RLBBL	Rohn-Loc Bottom Bracket (for use w/ladder attachment)	8
RLBBA *	Rohn-Loc Bottom Bracket (for use w/step bolts)	
RLTBL	Rohn-Loc Top Bracket (for use w/ladder attachment)	23
RLTBA *	Rohn-Loc Top Bracket (for use w/step bolts)	
RLTPA *	Rohn-Loc Top Post (for use w/step bolts)	20
RLFPA *	Rohn-Loc Filler Plates (for use w/step bolts)	
RLC (3/8EHS)	Rohn-Loc 3/8" EHS Safety Cable	273/MFT
RLC5/16	Rohn-Loc 5/16" Stainless Steel Safety Cable	210/MFT
RLR *	Rohn-Loc Cable Restrainer (for use w/ladder attachment)	2
RLCRA *	Rohn-Loc Cable Restrainer (for use w/step bolts)	1

* Specify tower model no. (25, 45, 55, 65, C, J) or section/pipe size

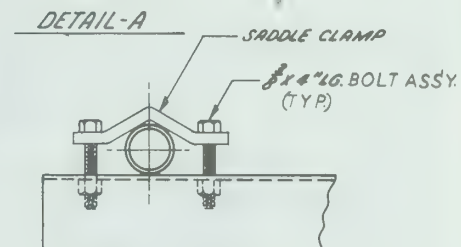
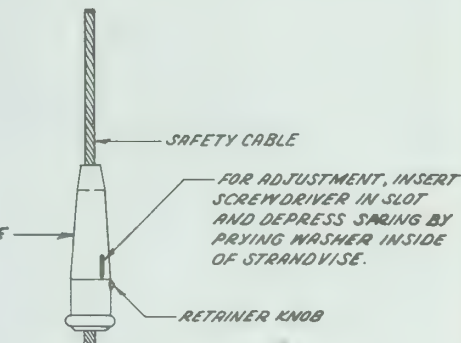
** Specify size (waist size) - S (32/40), M (36/44), L (40/48)



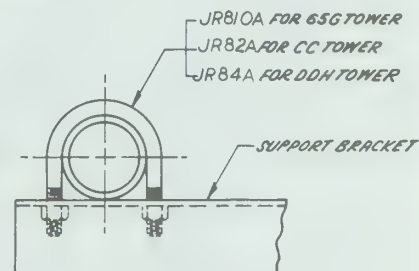
FABRICATION DRAWINGS

(FOR SHOP USE ONLY)

- B 730650 — SAFETY CABLE POST
- B 741163 — SUPPORT BRACKETS
- B 741169 — INTERMEDIATE LATCH
- C 730517R₂ — BOTTOM SAFETY BRACKET



METHOD SHOWN DIRECTLY ABOVE TO BE USED FOR FASTENING SUPPORT BRACKETS ON MODELS 25, 45, 55, & JJ TOWERS.

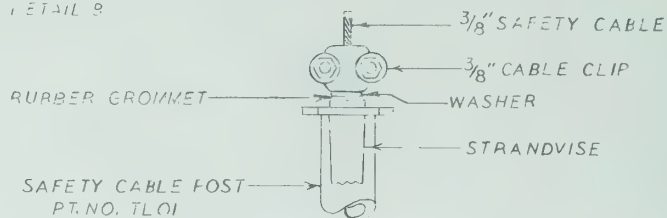
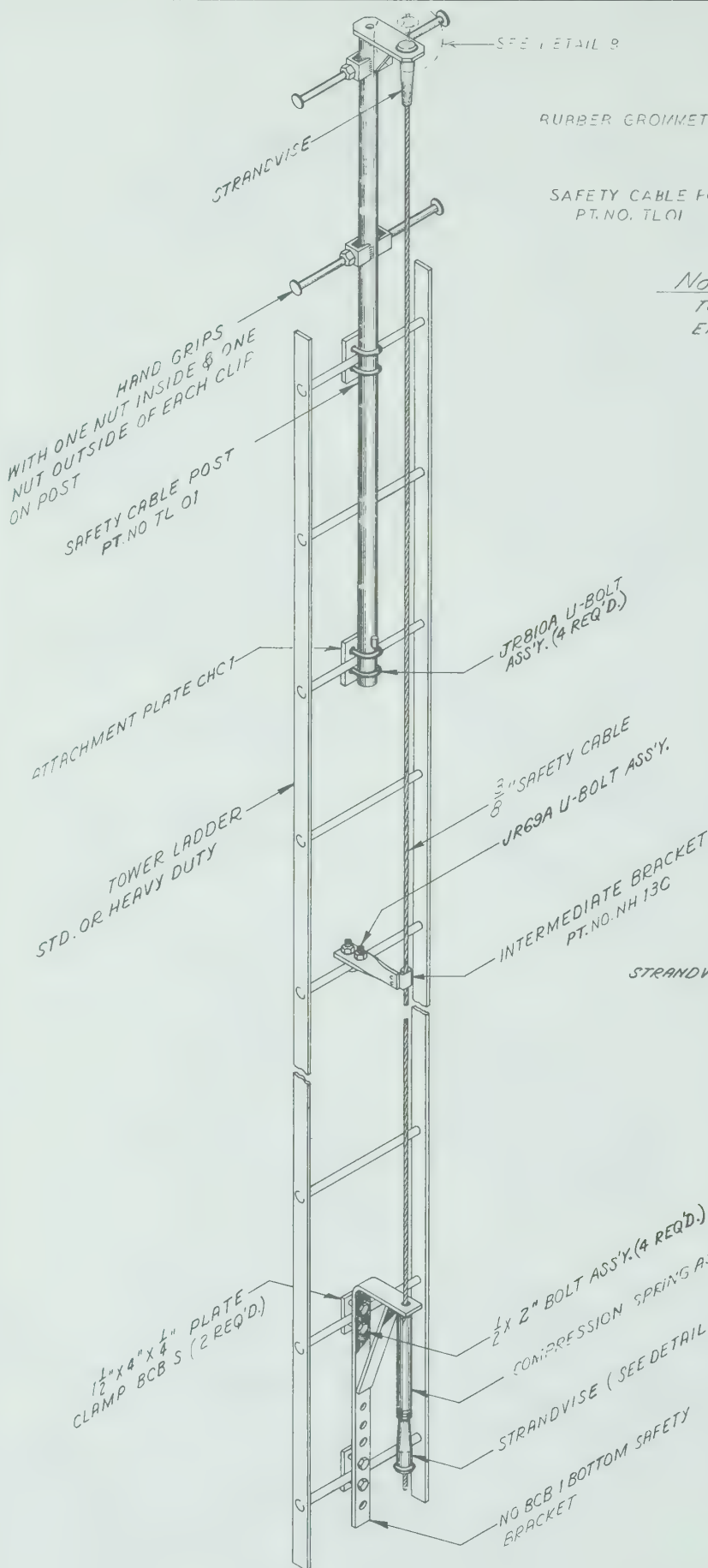


METHOD SHOWN DIRECTLY ABOVE TO BE USED FOR FASTENING SUPPORT BRACKETS ON MODELS 65, CC, & DDH TOWERS.

NOTE: 4 - FLAT WASHERS FOR 3/8\"/>

R1	UPDATED & ADDED DETAIL-B	7/9/80	KT
NO.	DESCRIPTION	DATE	BY
REVISIONS			
ROHN MANUFACTURING <small>DIVISION OF</small>			
TITLE Rohn-Loc Installation Details MODELS 25, 45, 55, 65, JJ, CC, & DDH TOWERS			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.		FILE NO.	
DESIGN	DRAWING	DATE	BY
BY: D. H.	DATE: 7-20-74	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES	DRAW. NO.
CHKD BY: J. H.	DATE: 7-21-74	TOLERANCES	C 741162 R1
APP'D BY: C. W.	DATE: 7-22-74	SEC. 1	2
DATE: 7-27-74			

NOTE: PAL NUTS PROVIDED FOR ALL BOLTS EXCEPT HAND GRIPS.

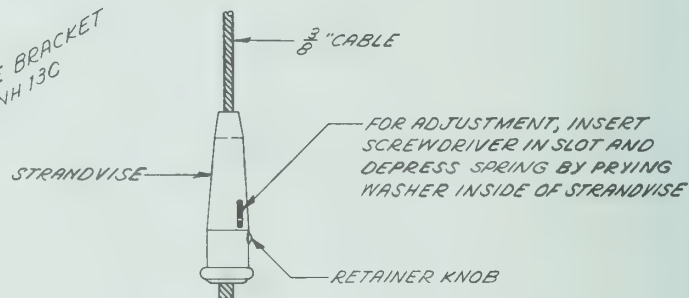


DETAIL B

NOTE: THIS SAFETY DEVICE INSTALLATION TO BE USED FOR ALL ROHN TOWERS USING EITHER A HEAVY OR STANDARD LADDER.

FABRICATION DRAWINGS
(FOR SHOP USE ONLY)

C 730517 R₃ — PARTS NO. BCB 1 & BCB 5
B 740610 — PART NO. NH 13C
SK 730903B — PART NO. CHC 1
B 730650 R₆ — PART NO. TL 01



DETAIL A

1 1/2" x 4" x 1/4" PLATE CLAMP BCB 5 (2 REQ'D.)
1/2" x 2" BOLT ASS'Y. (4 REQ'D.)
COMPRESSION SPRING ASS'Y
STRANDVISE (SEE DETAIL A)
NO BCB 1 BOTTOM SAFETY BRACKET

NOTE: PAL NUTS PROVIDED FOR ALL BOLTS EXCEPT HAND GRIPS

R1	ADDED DETAIL-B	7/9/80	KTLS
NO.	DESCRIPTION	DATE	BY
REVISIONS			
ROHN MANUFACTURING <small>DIVISION OF</small>			
TITLE ROHN-LOC INSTALLATION DETAILS for ROHN TOWERS w/LEG OR FACE MTD LADDER			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.		FILE NO.	
SCALE	MATERIAL	FINISH	WT
OWN BY: <i>O.H.</i>	DATE: <i>11-22-74</i>	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	
CR'D BY: <i>WDL</i>	DATE: <i>12-3-74</i>	TOLERANCES	
APP'D. ENGR: <i>CW</i>	DATE: <i>7-8-75</i>	DEC	FRAC
APP'D. SALES	DATE	±	±
		DWG. NO. C 741170 R1	

ONLY FROM ROHN...



24' - 80,000 POUND GUY INSULATORS

The new 24 foot, 80,000 pound ultimate strength guy line insulator from ROHN is ideal for applications requiring high mechanical loads, such as FM installations needing insulated (invisible) guy wires near the antenna.

The reliable high strength fiberglass rods are equipped with galvanized end fittings, proof tested after manufacture and assembly, and shipped in single 24 foot lengths.

More information is available from ROHN,
6718 W. Plank Road, P.O. Box 2000, Peoria, IL
61656, Phone: 309-697-4400, TWX: 910-652-0646,
FAX: 309-697-5612



ROHN[®]
TOWER
ERECTION TOOLS

ROHN® TOWER ERECTION TOOLS

UNR-Rohn, Division of UNR, Inc., headquartered in Peoria, Illinois U.S.A., serves the expanding world of communications as a major manufacturer of towers for broadcast and microwave transmission. Contained in the following pages are examples of Quality tools available from Rohn. These tools are commonly used for tower erection and service.

ADJUSTABLE WRENCHES

Drop-forged alloy steel and heat treated for toughness and durability.

ETCRTW10	10"
ETCRTW12	12"
ETCRTW18	18"

STRAIGHT PIPE WRENCHES

Comfort grip, malleable iron I-beam handle with convenient hang-up hole.

ETHDPW10	10"
ETHDPW12	12"

CONSTRUCTION WRENCHES

Drop-forged from select alloy steel to withstand high leverage and heavy loads with drifting and aligning handle.

	Bolt Size	Opening	Length
ETCTW7/8	1/2"	7/8"	12"
ETCTW11/16	5/8"	1-1/16"	14-3/4"
ETCTW11/4	3/4"	1-1/4"	17"
ETCTW17/16	7/8"	1-7/16"	17-5/16"
ETCTW15/8	1"	1-5/8"	17-11/16"

3/8" Drive, Deep Set

ETDS7/1638	7/16"
ETDS1/238	1/2"
ETDS9/1638	9/16"
ETDS5/838	5/8"
ETDS11/1638	11/16"
ETDS3/438	3/4"
ETDS13/1638	13/16"
ETDS7/838	7/8"

1/2" Drive, Deep Set

ETDS7/1612	7/16"
ETDS1/212	1/2"
ETDS9/1612	9/16"
ETDS11/1612	11/16"
ETDS13/1612	13/16"
ETDS7/812	7/8"
ETDS15/1612	15/16"
ETDS1&1/1612	1-1/16"
ETDS11/812	1-1/8"

3/4" Drive, Deep Set

ETDS11/434	1-1/4"
ETDS15/1634	1-5/16"
ETDS17/1634	1-7/16"
ETDS11/234	1-1/2"
ETDS15/834	1-5/8"

SOCKETS

REVERSIBLE RATCHET HANDLES

ETRRH738	7", 3/8" drive
ETRRH1012	10", 1/2" drive
ETRRH1512	15", 1/2" drive
ETRRH1934	19", 3/4" drive

SOCKET ADAPTERS

ETSADAP38/12	Converts 3/8" to 1/2"
ETSADAP12/38	Converts 1/2" to 3/8"
ETSADAP12/34	Converts 1/2" to 3/4"
ETSADAP34/12	Converts 3/4" to 1/2"

COMBINATION WRENCH SET

5 Pieces
ETCWSET
1/2", 9/16", 5/8", 3/4", 7/8"
Openings

LOCKING PLIER/WRENCH

ETLPW10
10" straight jaws

LEVEL

One piece extruded magnesium extra strength I-beam construction. Hang up Hole at one end. Levels in three positions.

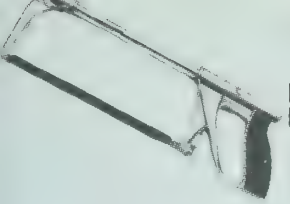
ETL4

4' long

PROTRACTOR PLUMB & LEVEL

For installing guy anchors at proper slope.

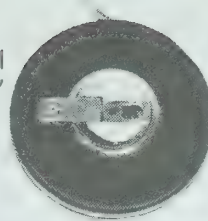
ETGAL



HACK SAW

Adjustable for 8" to 12" blades. Nickel plated steel frame. Furnished with 10" blade. Depth of cut - 3-1/4".

ETHS10 Hack Saw
ETHSB10 Set of 10 Blades (10")



STEEL TAPE

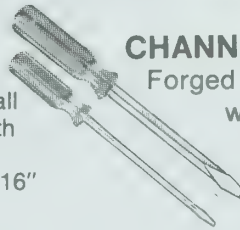
Metric and English. Chrome plated with an epoxy coating to protect bold black markings.

ETST15M/50 50' or 15 meters

SCREWDRIVERS

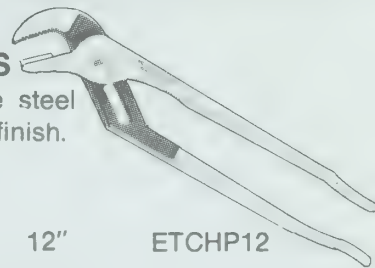
Alloy steel blades with plated finish.

	Blade Length	Diameter	Overall Length
Light Blade, Cabinet Tip			
ETSD3/16	6"	3/16"	9-1/16"
Square Blade, Standard Tip			
ETSD5/16	6"	5/16"	10"

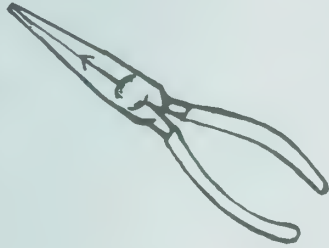


CHANNELOCK PLIERS

Forged from high grade steel with polished steel finish.

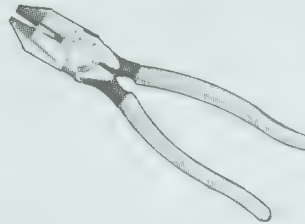


12" ETCHP12



THIN NOSE PLIERS

6" ETTNP



SIDE CUTTERS

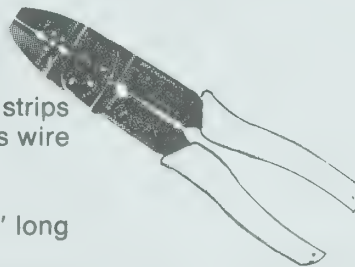
Forged from high grade steel with polished steel finish.

ETSC8 8" long

WIRE STRIPPERS

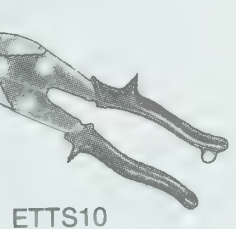
Shears bolts clean, cuts wire, strips wire, measures stud sizes, gauges wire sizes, crimps terminals.

ETWS1000 7-1/2" long



TIN SNIPS

Drop forged steel with polished jaws.

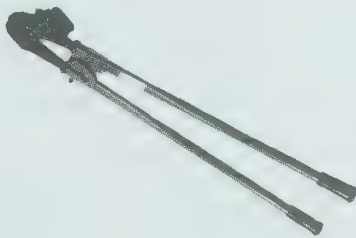


ETTS10

BOLT/CENTER CUTTERS

Hard metal cutter with a swing-away keeper recommended for cutting galvanized steel strand guy wire up to 1/2".

ETCCC1/2



BALL PIEN HAMMER

Hickory handle 40 oz.

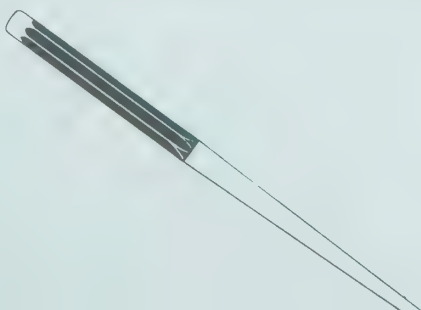
ETHAM40 16" Overall Length



DOUBLE FACE SLEDGE HAMMER

Handle length - 32". Face - 2-1/4". Weight - 8 lbs.

ETDFS8



LINING-UP PUNCH

Forged from hexagon steel, hardened and tempered. To stand up under severe conditions.

	Point	Stock	Length
ETLUP3/16	3/16"	1/2"	10"
ETLUP1/4	1/4"	3/4"	15"

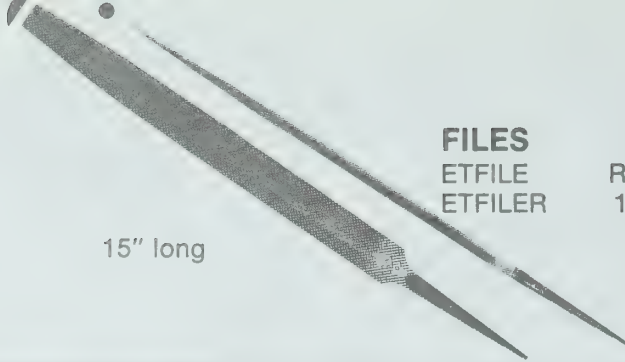


BULL PIN

Made of alloy steel.

ETBP3/8

15" long



FILES

ETFILE
ETFILER

Rasp, half round
1 1/2" dia. round, 12" long

CANVAS BUCKET

Made of No. 1 canvas with cyclolac top ring. Bottom is reinforced leather.

ETCBKT

17" high

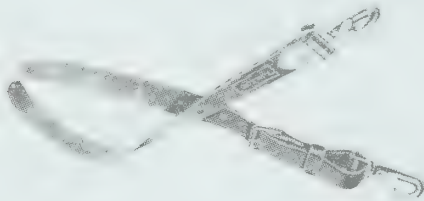


BELT BOLT BAG

Made of water repellent canvas.

ETBAG

10" x 11"



SAFETY STRAP

Made of high tenacity continuous filament nylon fabric. Thoroughly impregnated with neoprene to provide the desired flexibility with maximum strength.

ETSTRAP

TOOL AND SAFETY BELT

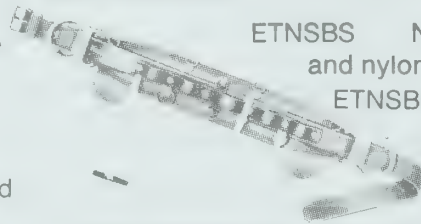
Waist strap is 1-3/4" wide and is made of 6 ply nylon.

ETTSBS 20" (*)

ETTSBM 22" (*)

ETTSBL 24" (*)

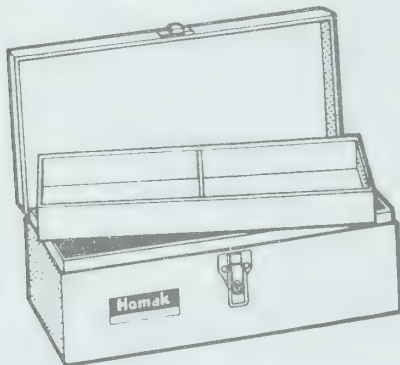
(*) Measure across back, hip to hip, add 2" to determine correct size.



ETNSBS Nylon safety belt with 2 "D" rings and nylon lanyard (no tool capacity) - small

ETNSBM Nylon safety belt (same as above) - medium

ETNSBL Nylon safety belt (same as above) - large



TOOL BOX

Approximate size
22" x 10" x 10"

ETTBL



HARD HAT

ADJUSTABLE

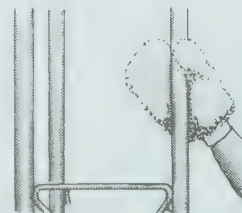
ETHH

LEATHER GLOVES

Top quality Split Cowhide leather with shirred elastic wrist. Gunn cut with straight thumb.

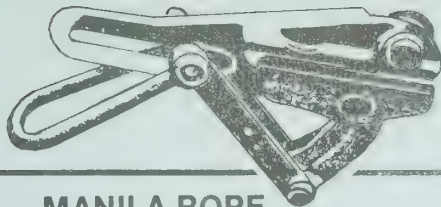


ETLG



PAINT MITT

ETPM



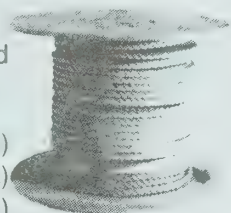
CABLE GRIPS

	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load
ETCG50	.50"	.16"	8,000 lbs.
ETCG75	.75"	.37"	10,000 lbs.
ETCG100	1.00"	.75"	15,000 lbs.

MANILA ROPE

3 strand lay rope. Lubricated to resist water and abrasion.

ETMR3/8	3/8" (Tensile Strength - 1,220 lbs.)
ETMR1/2	1/2" (Tensile Strength - 2,380 lbs.)
ETMR5/8	5/8" (Tensile Strength - 3,960 lbs.)



POLYPROPYLENE ROPE

600' or 1,200' coils only.

ETPR3/8	3/8" (Tensile Strength - 2,440 lbs.)
ETPR1/2	1/2" (Tensile Strength - 3,780 lbs.)
ETPR5/8	5/8" (Tensile Strength - 5,600 lbs.)

SERVING TOOL

CST1



PINCH BAR

ETPB30 5'



LIGHT DUTY CABLE HOIST

3/16" aircraft type cable.

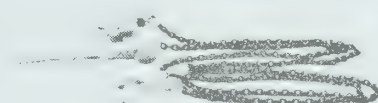
ETLDCH
2 Ton Capacity, Max. Lift 6'



HEAVY DUTY CHAIN HOIST

6,000 lb. hoist especially designed for close quarter lifting, pulling and stretching jobs. Hook latches included.

ETHDCH 3 Ton Capacity, Max. Lift 10'



WINCHES

ETHW2000 Heavy duty hand winch
(Drum cap. -735' 1/8" cable, Lift Cap. 2,000 lbs.)

ETHW4000 Heavy duty hand winch
(Drum cap. 460' 1/4" cable, Lift Cap. 4,000 lbs.)

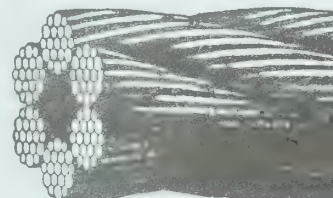
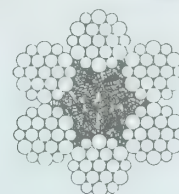


ETGPW1000

Gasoline powered, medium duty (Drum cap. 1,400' 3/8" cable, Lift Cap. 2,000 lbs.)

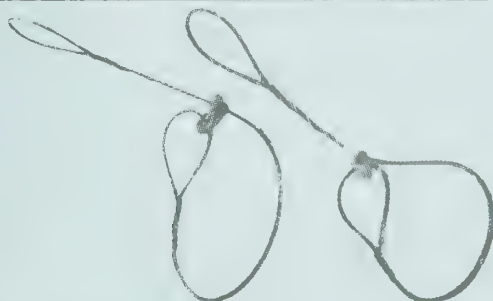
WINCH CABLE

ETWC18	1/8" (Breaking Strength - 2,000 lbs.)
ETWC14	1/4" (Breaking Strength - 5,880 lbs.)
ETWC38	3/8" (Breaking Strength - 13,120 lbs.)



CHOKER SLING -Cable braided eye and eye.

ETCS3/8x3	3', 3/8" (Max. Strength - 1,600 lbs.)
ETCS3/8x6	6', 3/8" (Max. Strength - 1,600 lbs.)
ETCS3/8x15	15', 3/8" (Max. Strength - 1,600 lbs.)
ETCS3/8x30	30', 3/8" (Max. Strength - 1,600 lbs.)
ETCS1/2x3	3', 1/2" (Max. Strength - 2,800 lbs.)
ETCS1/2x6	6', 1/2" (Max. Strength - 2,800 lbs.)
ETCS1/2x15	15', 1/2" (Max. Strength - 2,800 lbs.)
ETSC1/2x30	30', 1/2" (Max. Strength - 2,800 lbs.)



SNATCH BLOCKS

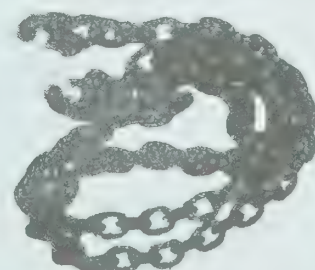
Forged steel swivel hooks, yokes, sheaves, and shackles.

		safe working load
ETSB18HHD	with hook	(8000#)
ETSB18HLD	with hook	(1200#)
ETSB19SHD	with shackle	(8000#)
ETSB19SLD	with shackle	(1200#)

CHAIN

1/2" chain with 2 clevis hooks.

ETCHN1/2 10' long





SCREW PIN SHACKLE

ETSPS3/4

3/4"



5" WOOD BLOCKS

ETWB2

2 Part w/Shackle (1,800 lbs. safe load)

ETWB3

3 Part w/Shackle (2,400 lbs. safe load)



ERECTION FIXTURES

ETGPS44L 44' standard
ETGPS60H 60' heavy duty
EFBX 12' (for BX towers)
EF25G 25' light duty

EF2545 12' (for towers w/1-1/4" side rails)
EF6520RH 16' heavy duty w/rotating head
(for #55 and 20' #65 sections)
EFSSVRH 16' w/rotating head (for self-supporting sections)

DYNAMOMETERS

Shunt Type

ETDYN5750
For 5/16" to 3/4"
Guy Strand

ETDYN5875
For 5/8" to 7/8" Guy
Strand



ET750SAD
Saddle for measuring
less than 5/16" Guy
Strand (Use with
ETDYN5750)

Dial Type

ETDYNDE
10,000 lb. Cap., 100
lb. Increments

ETDYNDM
5,000 kg. Cap., 50 kg.
Increments



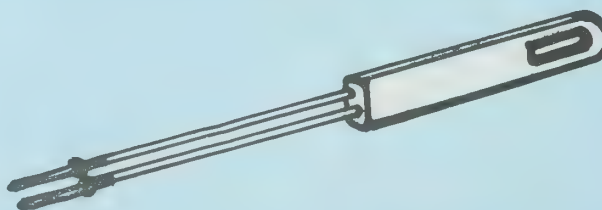
UNIVERSAL TRANSIT

ETUT
ETTRANSIT
ETTRIPOD

Transit with compass and tripod
Transit only
Tripod only

NEON TEST LIGHT

510024



The illustrations of the equipment are meant only to be typical. We are not responsible for the determination of riggings to be used on a job. This is the sole responsibility of the tower erector.

Specifications subject to change without notice.
Prices available upon request. F.O.B. Peoria, IL, U.S.A

ROHN®

ACCESSORIES

<u>PART NUMBER</u>		<u>WT.</u>
<u>GUY WIRE GALVANIZED 7-STRAND - PREFORMED</u>		
*3/16EHS	3/16" guy wire - extra high strength 3,990 lbs. breaking strength	73/MFT
*1/4EHS	1/4" guy wire - extra high strength 6,650 lbs. breaking strength	120/MFT
5/16EHS	5/16" guy wire - extra high strength 11,200 lbs. breaking strength	205/MFT
3/8EHS	3/8" guy wire - extra high strength 15,400 lbs. breaking strength	273/MFT
7/16EHS	7/16" guy wire - extra high strength 20,800 lbs. breaking strength	399/MFT
1/2EHS	1/2" guy wire - extra high strength 26,900 lbs. breaking strength	517/MFT
9/16EHS	9/16" guy wire - extra high strength 35,000 lbs. breaking strength	671/MFT
5/8EHS	5/8" guy wire - extra high strength 42,400 lbs. breaking strength	813/MFT

*Available in 500' or 1,000' coils. Order accordingly.

GUY WIRE GALVANIZED 19-STRAND - PREFORMED

3/4EHS	3/4" guy wire - extra high strength 58,300 lbs. breaking strength	1155/MFT
7/8EHS	7/8" guy wire - extra high strength 79,700 lbs. breaking strength	1581/MFT
1BS	1" bridgestrand 122,000 lbs. breaking strength	2100/MFT

NOTE: There is a guy wire reeling charge on guy wire sold individually in large enough quantities to be reeled.

SPECIAL GALVANIZED TURNBUCKLES
(HIGH STRENGTH)

3/8TBE&E	3/8" x 6" turnbuckle	eye & eye	1
3/8TBE&J	6,000 lbs. ultimate strength	eye & jaw	1
1/2TBE&E	1/2" x 12" turnbuckle	eye & eye	2
1/2TBE&J	11,000 lbs. ultimate strength	eye & jaw	2
5/8TBE&J	5/8" x 12" turnbuckle 17,500 lbs. ultimate strength	eye & jaw	3
3/4TBE&J	3/4" x 12" turnbuckle 26,000 lbs. ultimate strength	eye & jaw	5
7/8TBE&J	7/8" x 12" turnbuckle 36,000 lbs. ultimate strength	eye & jaw	8
1TBE&J	1" x 12" turnbuckle 50,000 lbs. ultimate strength	eye & jaw	10
11/4X18TB	1-1/4" x 18" turnbuckle 76,000 lbs. ultimate strength	eye & jaw	24
11/2X18TB	1-1/2" x 18" turnbuckle 107,000 lbs. ultimate strength	eye & jaw	30
13/4X18TB	1-3/4" x 18" turnbuckle 140,000 lbs. ultimate strength	eye & jaw	45

TURNBUCKLE SAFETIES

(Refer to Drawing No. B680324 for additional information.)

TBSAFETY	For use with 3/8" to 1" turnbuckles (consists of 15' 1/4" guy wire and 2 1/4CCM)	1
TBSAFETYH	For use with 1-1/4" and larger turnbuckles (consists of 15' 5/16" guy wire and 2 5/16CCF)	4

NOTE: To arrive at safe working load of guy wire and turnbuckles, appropriate safety factor must be applied.

Refer to alphabetical/numerical price list for current prices. Other prices are available upon request.

ACCESSORIES

PART NUMBER

WT.

ZINC PLATED CABLE CLAMPS

1/8CCM	1/8" cable clamps, malleable	3/100
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HOT DIP GALVANIZED CABLE CLAMPS

3/16CCM	3/16" cable clamps, malleable	5/100
3/16CCF	3/16" cable clamps, forged	10/100
1/4CCM	1/4" cable clamps, malleable	12/100
1/4CCF	1/4" cable clamps, forged	18/100
5/16CCF	5/16" cable clamps, forged	32/100
3/8CCF	3/8" cable clamps, forged	48/100
7/16CCF	7/16" cable clamps, forged	72/100
1/2CCF	1/2" cable clamps, forged	78/100
9/16CCF	9/16" cable clamps, forged	96/100
5/8CCF	5/8" cable clamps, forged	100/100

STANDARD HOT DIP GALVANIZED THIMBLES

1/4TH	For 1/8" or 3/16" wire with cable clamps	4/100
3/8TH	For 1/4" wire with cable clamps	8/100

HEAVY DUTY HOT DIP GALVANIZED THIMBLES

5/16THH	For 3/16" wire with big grips	14/100
3/8THH	For 1/4" wire with big grips or 5/16" wire with cable clamps	25/100
7/16THH	For 5/16" wire with big grips	36/100
1/2THH	For 3/8" or 7/16" wire with cable clamps or 3/8" wire with big grips	50/100
9/16THH	For 7/16" wire with big grips	51/100
5/8THH	For 1/2" or 9/16" wire with cable clamps or big grips	75/100
3/4THH	For 5/8" wire with cable clamps or big grips	150/100
7/8THH	For 3/4" wire with big grips	185/100
1TT	For 7/8" wire with big grips	292/100

SERVING TOOL

CST1	Serving tool	3
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HOT DIP GALVANIZED ROUND PIN ANCHOR SHACKLES

3/8S	1 ton safe working load	30/100
1/2S	2 ton safe working load	65/100
5/8S	3-1/4 ton safe working load	130/100
3/4S	4-3/4 ton safe working load	216/100
7/8S	6-1/2 ton safe working load	325/100
1S	8-1/2 ton safe working load	500/100
1 1/8S	9-1/2 ton safe working load	700/100
1 1/4S	12 ton safe working load	960/100

GUY INSULATORS

502	Guy strain insulator, closed end type 10,000 lbs. strength	1
504	Guy strain insulator, closed end type 12,000 lbs. strength	1-1/2
506	Guy strain insulator, closed end type 20,000 lbs. strength	3
556	Guy strain insulator, closed end type 33,000 lbs. strength	4-1/2

INSULATOR CLEVISSES

J732	Use with 504, 12,000 lbs. strength, 5" length	130/100
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NOTE: J732 can be used with 506 insulators if strength requirement does not exceed 12,000 lbs. J732 will be discontinued as soon as our present inventory is depleted.

Refer to alphabetical/numerical price list for current prices. Other prices are available upon request.

ACCESSORIES

<u>PART NUMBER</u>		<u>WT.</u>
<u>CONCRETE ANCHORS</u>		
GAC253	5/8" x 5' rod with 3-hole twin equalizer plates (EP25343)	11
GAC255	5/8" x 5' rod with 5-hole twin equalizer plates (EP25345)	12
GAR25	5/8" x 5' rod only with eye	8
EP25343	3-hole twin equalizer plates with nuts and bolts	3
EP25345	5-hole twin equalizer plates with nuts and bolts	4

<u>PART NUMBER</u>	<u>WT.</u>	<u>PART NUMBER</u>	<u>WT.</u>
GAC3455	25	**GAC5855	220
GAC5655	65	**GAC5955	310
GAC5755	125	**GAC6055	380

WALL ANCHORS

GAW25	5/8" x 18" threaded wall eye anchor (rod only) with 5" x 5" retaining plates and nuts	3
GAWP253	GAW25 with 3-hole twin equalizer plates (EP25343)	6
GAWP255	GAW25 with 5-hole twin equalizer plates (EP25345)	7

CONCRETE BASE BOLTS (W/DOUBLE NUTS) AND PIER PINS

1/2X12BB	Base bolt	1/2
5/8X12BB	Base bolt	1
3/4X16BB	Base bolt	1-1/2
**7/8X16BB	Base bolt	3
3/4X12PP	Pier pin	1
15/16X16PP	Pier pin	3

EARTH SCREW ANCHOR

GAS604	6" screw plate with 4' rod and eye (holding power, 2500 lbs.)	7
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**Not a stock item. Allow sufficient time for ordering and delivering.

Refer to alphabetical/numerical price list for current prices.

Other prices are available upon request.

F.O.B. PEORIA, ILLINOIS. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ACCESSORIES

<u>PART NUMBER</u>	<u>GROUNDING KITS</u>	<u>WT.</u>
BGK	<u>Base Grounding Kit</u> 1 - 5/8" x 8' copper rod 1 - Brass tower attachment lug w/hardware 1 - Brass rod clamp 10'- #4 solid copper wire	10
BGKE	<u>Base Grounding Kit</u> 1 - 5/8" x 8' galvanized rod 1 - Tower attachment lug w/hardware 1 - S58 rod clamp 5'- #6 solid copper wire	10
AGK	<u>Anchor (Wire) Grounding Kit (For 3 Anchors)</u> 3 - 5/8" x 8' copper rods 3 - Brass rod clamps 9 - Guy wire ground clamps 45'- #4 stranded copper wire	30
RGK	<u>Anchor Rod Grounding Kit (For 3 Anchors)</u> 3 - 5/8" x 8' copper rods 3 - Brass rod clamps 3 - Brass attachment lugs w/hardware 15'- #4 solid copper wire	24
AGKE	<u>Anchor (Wire) Grounding Kit (For 3 Anchors)</u> 3 - 5/8" x 8' galvanized rods 3 - S58 rod clamps 9 - Guy wire ground clamps 45'- #6 solid copper wire	30
RGKE	<u>Anchor Rod Grounding Kit (For 3 Anchors)</u> 3 - 5/8" x 8' galvanized rods 3 - S58 rod clamps 3 - Attachment lugs w/hardware 15'- #6 solid copper wire	24

GROUND RODS & ACCESSORIES

GR8G	5/8" x 8' galvanized rod w/ground wire clamp	8
GR8C	5/8" x 8' plain end copper rod w/ground wire clamp	8
GR10C	3/4" x 10' threaded copper rod w/ground wire clamp	14
3/4C	3/4" ground rod coupling (to joint GR10C together and required when 3/4D used)	1/2
3/4D	3/4" ground rod driver (for use w/GR10C)	1/2

COPPER WIRE

CW6S	#6 solid	80/MFT
CW4S	#4 solid	125/MFT
CW4ST	#4 stranded	125/MFT
CW2S	#2 solid	200/MFT
CW2ST	#2 stranded	200/MFT
CW2/0ST	#2/0 stranded	411/MFT
CW4/0ST	#4/0 stranded	653/MFT

Refer to alphabetical/numerical price list for current prices.

BIG-GRIPS AND VARI-GRIPS
(DEAD END)
COMPLETE WITH END SLEEVE

<u>PART NUMBER</u>		<u>WT.</u>
<u>FOR 7-STRAND GALVANIZED GUY WIRE</u>		
BG2142	3/16" Big-Grip, 23" length, complete with GC65303 end sleeve	28/100
BG2144	1/4" Big-Grip, 27" length, complete with GC65136 end sleeve	38/100
BG2146	5/16" Big-Grip, 33" length, complete with GC65128 end sleeve	66/100
*BG2147	3/8" Big-Grip, 37" length, complete with GC65264 end sleeve	95/100
*BG2148	7/16" Big-Grip, 40" length, complete with GC65265 end sleeve	140/100
*BG2115	1/2" Big-Grip, 50" length, complete with GC65266 end sleeve	315/100
*BG2116	9/16" Big-Grip, 55" length, complete with GC65267 end sleeve	480/100
*BG2111	5/8" Big-Grip, 64" length, complete with GC65268 end sleeve	650/100
<u>FOR 19-STRAND GALVANIZED GUY WIRE</u>		
*BG2112	3/4" Big-Grip, 76" length, complete with GC65269 end sleeve	1080/100
*BGMS7023	7/8" Big-Grip, 90" length, complete with GC65270 end sleeve	1125/100
*1BSVGO	1" Vari-Grip, 66" length, complete with GC65271 end sleeve	5400/100

- NOTES: 1) End sleeves must be used on all Big-Grips and Vari-Grips. See Drawing B700607 for procedure to apply end sleeve.
- 2) Oversized heavy duty thimbles must be used with all Big-Grips. Thimbles are not required when using Vari-Grips.
- 3) There is a limited stock on Vari-Grips. Allow sufficient time for ordering and delivering.

*Prices available upon request.

Refer to alphabetical/numerical price list for prices on other items.

TO ACHIEVE MAXIMUM COVERAGE WITH THE END SLEEVE, THE APPLICATION SHOULD BE CONDUCTED IN THE FOLLOWING MANNER:

(BE SURE TO SELECT PROPER SIZE END SLEEVE)



1
PLACE THE SLOT SIDE OF THE
END SLEEVE OVER THE LONG
LEG OF THE DEAD-END.



2
DRIVE THE SLEEVE DOWNWARD UNTIL
THE RODS OF SHORT LEG ARE COM-
PLETLY COVERED.

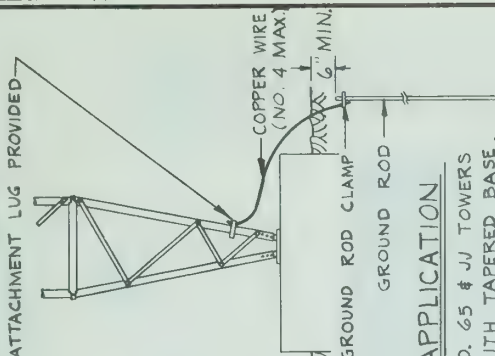


3
THE RODS OF THE LONG LEG
SHOULD BE EVEN WITH, OR
MAY EXTEND ABOVE, THE TOP
EDGE OF THE SLEEVE.

R1 REVISED GUY GRIP TO BIG GRIP 7-6-76 DHA

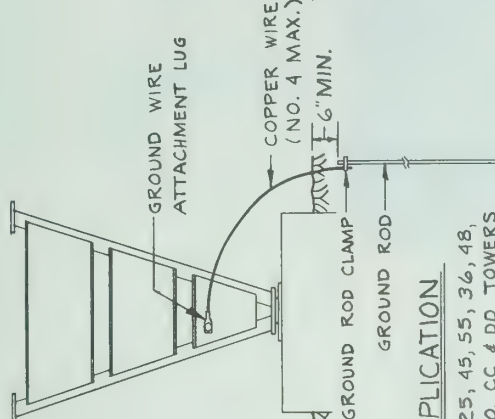
NO.	DESCRIPTION	DATE	BY
REVISIONS			
R O H N			
TITLE			
APPLICATION PROCEDURE			
FOR BIG-GRIP END SLEEVE			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
SCALE	MATERIAL	FINISH	WT.
NONE			
DWN BY	DATE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	
H ARCHANG	8-9-70		
CRD BY	DATE		
B CHW			
PLAN	8-9-70		
TOLERANCES		DWG. NO.	
DEC	±	B-700607	
FRAC	±	R1	
ANGLES	±		

ATTACH TO LEG IF CLAMP PROVIDED; ATTACH TO BRACE BOLT IF GROUND WIRE ATTACHMENT LUG PROVIDED



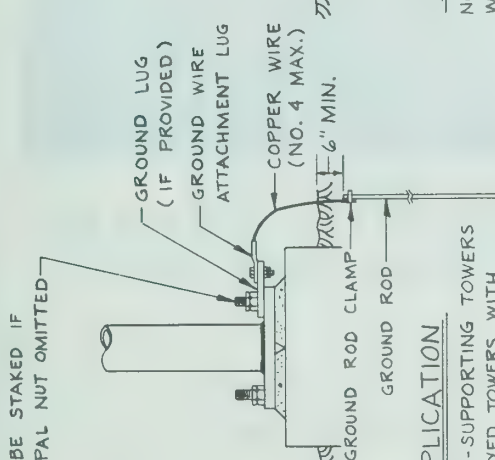
APPLICATION
NO. 65 & JJ TOWERS
WITH TAPERED BASE.

ATTACH TO LEG IF CLAMP PROVIDED; ATTACH TO JOINT BOLT IF GROUND WIRE ATTACHMENT LUG PROVIDED



APPLICATION
NO. 25, 45, 55, 36, 48,
80, 90, CC & DD TOWERS
WITH TAPERED BASE.

ANCHOR BOLT MUST BE STAKED IF PAL NUT OMITTED

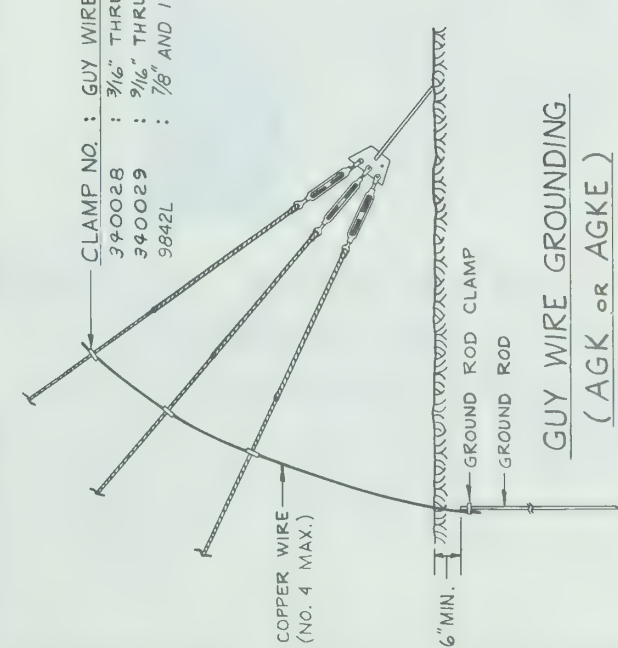


APPLICATION
SELF-SUPPORTING TOWERS
& GUYED TOWERS WITH
ANCHOR BOLTS.

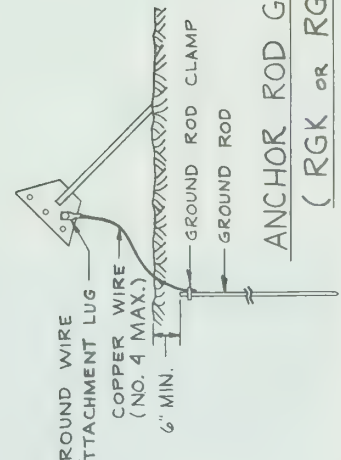
BASE GROUNDING KITS (BGK or BGKE)

NOTE:
REMOVE ALL SHARP BENDS FROM COPPER WIRE

CLAMP NO. : GUY WIRE SIZE
340028 : 3/16" THRU 1/2"
340029 : 5/16" THRU 3/4"
9842L : 7/8" AND 1" (SEE INSTALLATION DETAIL 5601367)



GUY WIRE GROUNDING
(AGK or AGKE)



ANCHOR ROD GROUNDING
(RGK or RGKE)

R2	ADDED GROUND CLAMP PT. NO. 9842L	11-21-80	A/G
R1	CHG'D CLAMP NO. ON AGK & AGKE DETAIL	6-9-77	MDI
NO.	DESCRIPTION	DATE	BY
REVISIONS			
ROHN® MANUFACTURING DIVISION OF			
TITLE TOWER GROUNDING METHODS			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT OUR WRITTEN CONSENT.			
SCALE	MATERIAL	FINISH	WT.
NONE	DATE 11-20-73	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	
DRN. BY JER	DATE 11-27-73	TOLERANCE	DWG. NO.
CHKD BY	DATE 11-27-73	ANGLES	C-731105
APP'D BY	DATE 11-27-73	DEC.	R2

ANCHOR GROUNDING KITS

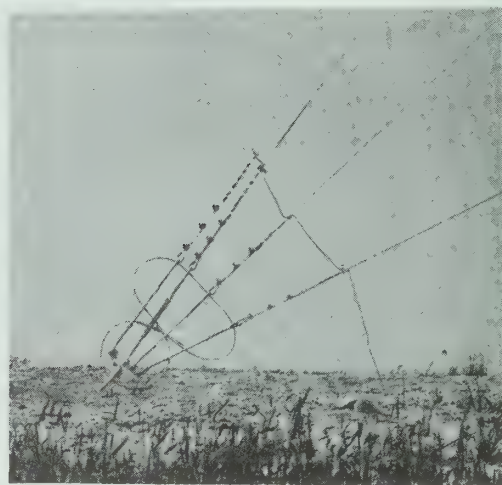
PROPER ANCHOR INSTALLATIONS



SERVING



10" I BEAM STUB ANCHOR
WITH MICROPRESS
SLEEVES AND SAFETY
WIRE



SAFETY WIRE AND
GROUNDING

BILL OF MATERIAL

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	1	NL20	LADDER - 20' LONG	SK680905
2	REF	SEE CHART	LADDER BRACKET HARDWARE KIT	SEE CHART
3	2	KY95	SPLICE PLATE	SK680905
4	10	210018GA	1/2" X 1-1/2" BOLT ASSY	C770404
5	10	210019GAM	1/2" X 1-3/4" BOLT ASSY W/ WASHER	C770404
6	18	25001G	1/2" FLAT WASHER	SK680905
1	1	NL10	LADDER - 10' LONG	SK680905
2	REF	SEE CHART	LADDER BRACKET HARDWARE KIT	SEE CHART
3	2	KY95	SPLICE PLATE	SK680905
4	8	210018GA	1/2" X 1-1/2" BOLT ASSY	C770404
5	8	210019GAM	1/2" X 1-3/4" BOLT ASSY W/ WASHER	C770404
6	12	25001G	1/2" FLAT WASHER	SK680905

P/N NL20A
1-20'
SECTION

P/N NL10A
1-10'
SECTION

STD. LADDER SADDLE CLAMP
(P/N KH323)

3/8" X 4" BOLT ASSY
W/ WASHER

SECTION A-A
(VIEW NO. 1)
FOR: 5/8" THRU 3" O.D. LEGS

SEE DETAIL B

1/2" X 1 1/4" BOLT ASSY
W/ WASHERS BOTH SIDES
(1 HP FOR ALL EXT. R.S.)

1/2" X 1 1/2" BOLT ASSY

SECTION A-A
(VIEW NO. 2)
FOR: 3" AND 3 1/2" PIPE
4" PIPE, TOP AND INTERMEDIATE
BRACKET
5" PIPE, TOP AND INTERMEDIATE
BRACKET
6" PIPE, TOP AND INTERMEDIATE
BRACKET
8" PIPE, TOP BRACKET

NOTE: LADDER TO
BE INSTALLED W/
6" RUNG SPACING

LADDER
LADDER BRACKET
W/ EXTENSION PLATE
INTERMEDIATE BRACKET
REQ'D. FOR 20'
SECTION ONLY
TOWER LEG

LADDER ELEVATION
FRONT VIEW

LADDER ELEVATION
SIDE VIEW

DETAIL "B"
SPLICE DETAILS

SECTION A-A
(VIEW NO. 3)
FOR: 5" PIPE, BOTTOM BRACKET
6" PIPE, BOTTOM BRACKET
8" PIPE, INTERMEDIATE AND
BOTTOM BRACKET

SECTION A-A
(VIEW NO. 4)
FOR: 10" PIPE

SECTION A-A
(VIEW NO. 5)
FOR: 12" PIPE

SECTION A-A
(VIEW NO. 6)
FOR: 14" PIPE

SECTION A-A
(VIEW NO. 7)
FOR: 16" PIPE

SECTION A-A
(VIEW NO. 8)
FOR: 18" PIPE

SECTION A-A
(VIEW NO. 9)
FOR: 20" PIPE

SECTION A-A
(VIEW NO. 10)
FOR: 22" PIPE

SECTION A-A
(VIEW NO. 11)
FOR: 24" PIPE

SECTION A-A
(VIEW NO. 12)
FOR: 26" PIPE

SECTION A-A
(VIEW NO. 13)
FOR: 28" PIPE

SECTION A-A
(VIEW NO. 14)
FOR: 30" PIPE

SECTION A-A
(VIEW NO. 15)
FOR: 32" PIPE

SECTION A-A
(VIEW NO. 16)
FOR: 34" PIPE

SECTION A-A
(VIEW NO. 17)
FOR: 36" PIPE

SECTION A-A
(VIEW NO. 18)
FOR: 38" PIPE

SECTION A-A
(VIEW NO. 19)
FOR: 40" PIPE

SECTION A-A
(VIEW NO. 20)
FOR: 42" PIPE

SECTION A-A
(VIEW NO. 21)
FOR: 44" PIPE

SECTION A-A
(VIEW NO. 22)
FOR: 46" PIPE

SECTION A-A
(VIEW NO. 23)
FOR: 48" PIPE

SECTION A-A
(VIEW NO. 24)
FOR: 50" PIPE

SECTION A-A
(VIEW NO. 25)
FOR: 52" PIPE

SECTION A-A
(VIEW NO. 26)
FOR: 54" PIPE

SECTION A-A
(VIEW NO. 27)
FOR: 56" PIPE

SECTION A-A
(VIEW NO. 28)
FOR: 58" PIPE

SECTION A-A
(VIEW NO. 29)
FOR: 60" PIPE

SECTION A-A
(VIEW NO. 30)
FOR: 62" PIPE

SECTION A-A
(VIEW NO. 31)
FOR: 64" PIPE

SECTION A-A
(VIEW NO. 32)
FOR: 66" PIPE

SECTION A-A
(VIEW NO. 33)
FOR: 68" PIPE

SECTION A-A
(VIEW NO. 34)
FOR: 70" PIPE

SECTION A-A
(VIEW NO. 35)
FOR: 72" PIPE

SECTION A-A
(VIEW NO. 36)
FOR: 74" PIPE

SECTION A-A
(VIEW NO. 37)
FOR: 76" PIPE

SECTION A-A
(VIEW NO. 38)
FOR: 78" PIPE

SECTION A-A
(VIEW NO. 39)
FOR: 80" PIPE

SECTION A-A
(VIEW NO. 40)
FOR: 82" PIPE

SECTION A-A
(VIEW NO. 41)
FOR: 84" PIPE

SECTION A-A
(VIEW NO. 42)
FOR: 86" PIPE

SECTION A-A
(VIEW NO. 43)
FOR: 88" PIPE

SECTION A-A
(VIEW NO. 44)
FOR: 90" PIPE

SECTION A-A
(VIEW NO. 45)
FOR: 92" PIPE

SECTION A-A
(VIEW NO. 46)
FOR: 94" PIPE

SECTION A-A
(VIEW NO. 47)
FOR: 96" PIPE

SECTION A-A
(VIEW NO. 48)
FOR: 98" PIPE

SECTION A-A
(VIEW NO. 49)
FOR: 100" PIPE

SECTION A-A
(VIEW NO. 50)
FOR: 102" PIPE

SECTION A-A
(VIEW NO. 51)
FOR: 104" PIPE

SECTION A-A
(VIEW NO. 52)
FOR: 106" PIPE

SECTION A-A
(VIEW NO. 53)
FOR: 108" PIPE

SECTION A-A
(VIEW NO. 54)
FOR: 110" PIPE

SECTION A-A
(VIEW NO. 55)
FOR: 112" PIPE

SECTION A-A
(VIEW NO. 56)
FOR: 114" PIPE

SECTION A-A
(VIEW NO. 57)
FOR: 116" PIPE

SECTION A-A
(VIEW NO. 58)
FOR: 118" PIPE

SECTION A-A
(VIEW NO. 59)
FOR: 120" PIPE

SECTION A-A
(VIEW NO. 60)
FOR: 122" PIPE

SECTION A-A
(VIEW NO. 61)
FOR: 124" PIPE

SECTION A-A
(VIEW NO. 62)
FOR: 126" PIPE

SECTION A-A
(VIEW NO. 63)
FOR: 128" PIPE

SECTION A-A
(VIEW NO. 64)
FOR: 130" PIPE

SECTION A-A
(VIEW NO. 65)
FOR: 132" PIPE

SECTION A-A
(VIEW NO. 66)
FOR: 134" PIPE

SECTION A-A
(VIEW NO. 67)
FOR: 136" PIPE

SECTION A-A
(VIEW NO. 68)
FOR: 138" PIPE

SECTION A-A
(VIEW NO. 69)
FOR: 140" PIPE

SECTION A-A
(VIEW NO. 70)
FOR: 142" PIPE

SECTION A-A
(VIEW NO. 71)
FOR: 144" PIPE

SECTION A-A
(VIEW NO. 72)
FOR: 146" PIPE

SECTION A-A
(VIEW NO. 73)
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SECTION A-A
(VIEW NO. 74)
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SECTION A-A
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SECTION A-A
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SECTION A-A
(VIEW NO. 177)
FOR: 356" PIPE

SECTION A-A
(VIEW NO. 178)
FOR: 358" PIPE

SECTION A-A
(VIEW NO. 179)
FOR: 360" PIPE

SECTION A-A
(VIEW NO. 180)
FOR: 362" PIPE

BILL OF MATERIAL				DWG. NO.
ITEM	QUAN.	PART NO.	DESCRIPTION	
1	1	HL 162 A	LADDER 20'LG.	SK 711239 R8
2	2	KY 96	HEAVY LADDER SPLICE PLATE	SK 711239 R8
3	10	2100186A	1/2" X 1 1/2" BOLT ASS'Y	C770401R2
1	1	HL 161 A	LADDER 10'LG.	SK 711239 R8
2	2	KY 96	HEAVY LADDER SPLICE PLATE	SK 711239 R8
3	8	2100186A	1/2" X 1 1/2" BOLT ASS'Y	C770401R2

NOTE:

WHEN ORDERING LADDER YOU MUST ORDER
REQD. QUANTITY OF LADDER MATL. PLUS
MOUNTING BRACKETRY TO MATCH TOWER
LEG SIZE.

LEG SIZE	BRACKET PT. NO. (SK 711239)	U-BOLT 1 REQD. PER BRACKET	BOLT SIZE WASHER 2 REQD. PER BRACKET	LADDER BRACKET ASSEMBLY PART NO. **
BAR 3/4" Ø	KY 71	—	1/2" X 2" - 210020 GAW	KY 902
BAR 1 1/4" Ø	KY 71	—	1/2" X 2 1/4" - 210021 GAW	KY 903
BAR 1 1/2" Ø	KY 71	—	1/2" X 2 1/2" - 210024 GAW	KY 904
2" PIPE	KY 72	JR 83AW	—	KY 905
2 1/4" TUBE	KY 72	JR 83AW	—	KY 905
2 1/2" PIPE	KY 71	JR 84AW	—	KY 906
3" TUBE	KY 71	JR 84AW	—	KY 906
3" PIPE	KY 71	JR 88AW	—	KY 907
3 1/2" PIPE	KY 71	JR 89AW	—	KY 908
4" PIPE	KY 71	JR 85AW	—	KY 909
5" PIPE	KY 73	JR 86A	—	KY 910
6" PIPE	KY 72	JR 87A	—	KY 911
8" PIPE	KY 73	JR 90SA	—	KY 912

** NOTE: LADDER BRACKET ASSEMBLY
3 REQD. FOR 20'
2 REQD. FOR 10'

* 1 LADDER SADDLE CLAMP REQD. PER BRACKET

R8	REVISE NOTE 4	1-13-77	2004
R7	ADD NOTE 4	7-1-75	2004
R6	ADDED RING SPACING NOTE & REVISED SPLICE 2	6-23-73	2004
R5	REVISED MK. NO.'S	12-17-74	R03
R4	REDRAWN	4-30-74	1/4
NO	DESCRIPTION	DATE	BY

REVISIONS

ROHN MANUFACTURING
DIVISION OF

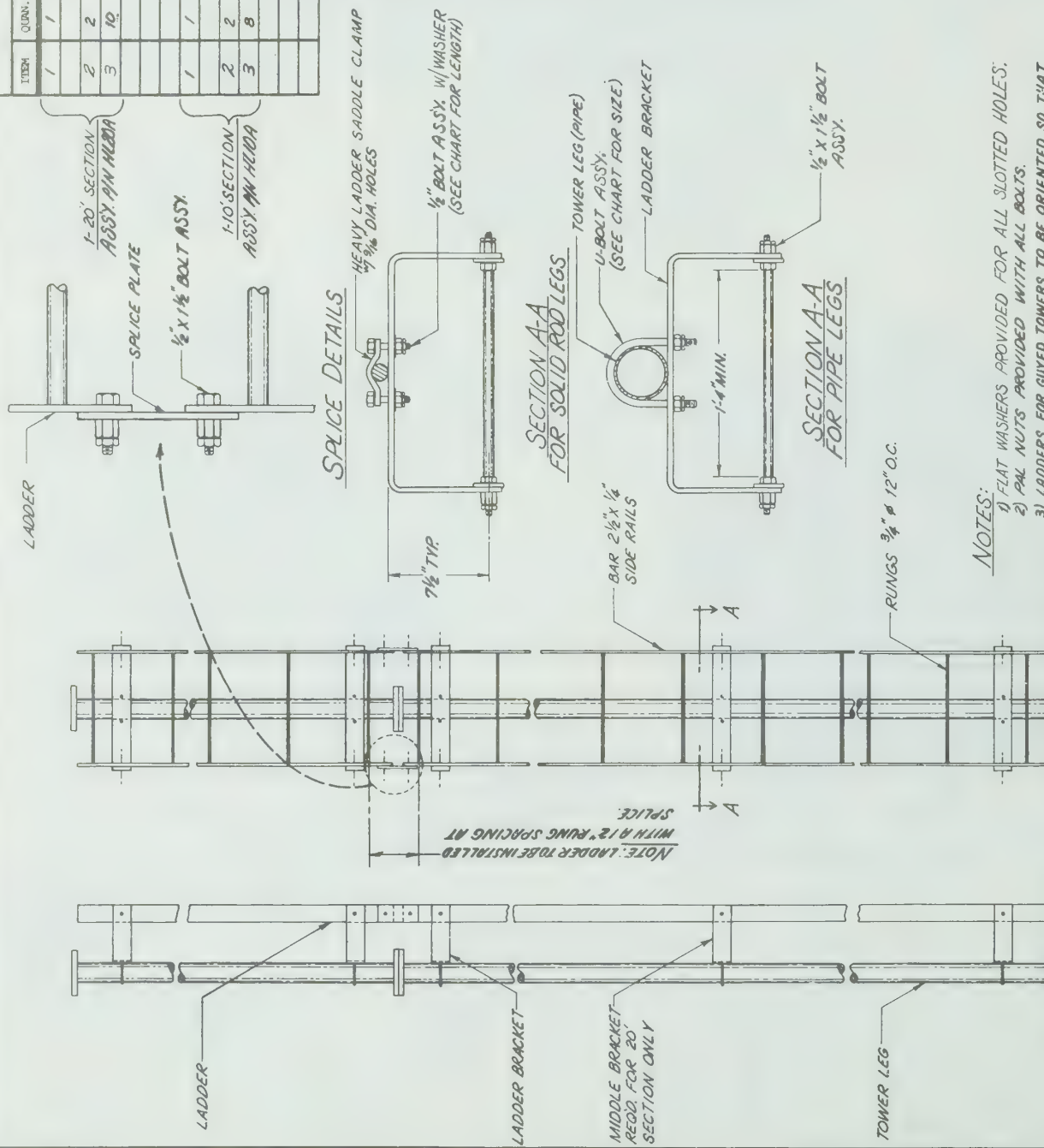


LADDER ASSY LEG HEAVY-DUTY

FILE NO.

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REVISION	DATE	BY	FILE NO.
1	1-13-77	2004	
2	7-1-75	2004	
3	6-23-73	2004	
4	12-17-74	R03	
5	4-30-74	1/4	



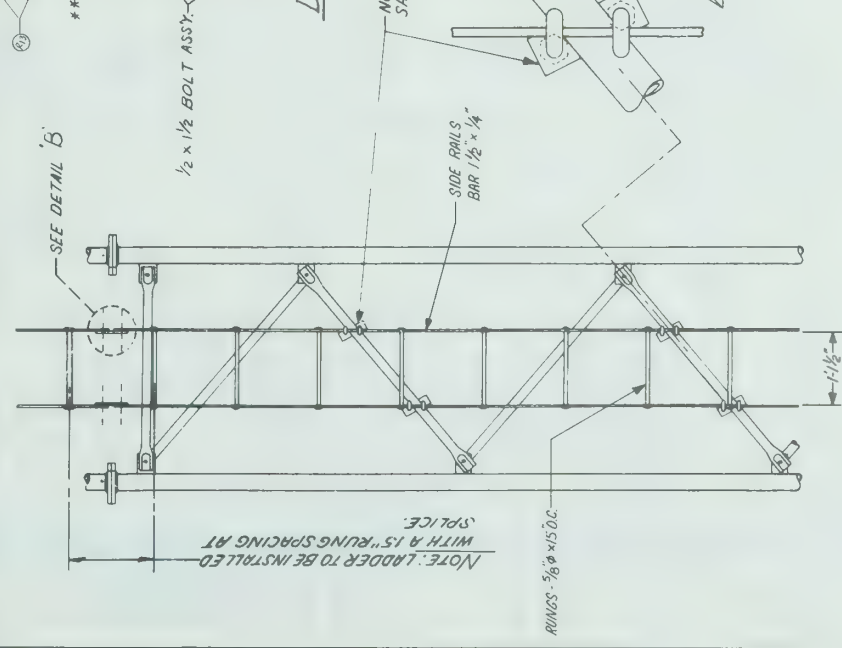
NOTES:

- 1) FLAT WASHERS PROVIDED FOR ALL SLOTTED HOLES.
- 2) PAL NUTS PROVIDED WITH ALL BOLTS.
- 3) LADDERS FOR GUYED TOWERS TO BE ORIENTED SO THAT THE LADDER RUNGS PARALLEL GUY WIRES.
- 4) ALL TOWERS 200' & OVER, LADDER TO BE FIELD CUT TO PROPER LENGTH AFTER ASSY.
- 5) U-BOLT PART NO. IDENTIFICATION:
UR8A --- 1/2" U-BOLT ONLY
UR8AW --- 1/2" U-BOLT W/ NUTS & PAL NUTS
UR8AW --- 1/2" U-BOLT W/ NUTS, PAL NUTS & WASHERS

NOTE: IT IS RECOMMENDED A ROHN-LOC SAFETY DEVICE BE PROVIDED
WITH LADDER INSTALLATIONS FOR ADDED CLIMBER SAFETY.

R12	REMOVED 1/2" FLAT WASHERS	2500114	525-83	RKB	R10	ADDED ASSBY PINS & NUTS	3-14-81	AM LTR	77	DEC.	74	INSTR.	74	ANAL.	74	PLAC.	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	7
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BILL OF MATERIAL ASSY NO. NL20FT		
QTY	PART NO.	DESCRIPTION
1	NL 20	20' SECTION
2	KY 95	LADDER SPICE PLATE
8	KH 91	NO 25 WINCH SADDLE CLAMP
4	210018GA	1/2 x 1 1/2 BOLT ASSY
16	J44AA	J-BOLT ASSY
10' SECTION ASSY NO. NL10FT		
1	NL 10	LADDER SECTION
2	KY 95	LADDER SPICE PLATE
4	210018GA	1/2 x 1 1/2 BOLT ASSY
8	J44AA	J-BOLT ASSY



TUBULAR BRACING

NOTE: IT IS RECOMMENDED A ROHN-LOC SAFETY DEVICE BE PROVIDED WITH LADDER INSTALLATIONS FOR ADDED CLIMBER SAFETY.

NOTES:
 1. LADDER CAN BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.
 2. QUANTITIES LISTED ARE FOR ONE LADDER SECTION ONLY.
 3. SPACE CLAMPS & CLIPS AS SHOWN.

ANGULAR BRACING MOUNTING HARDWARE CHART

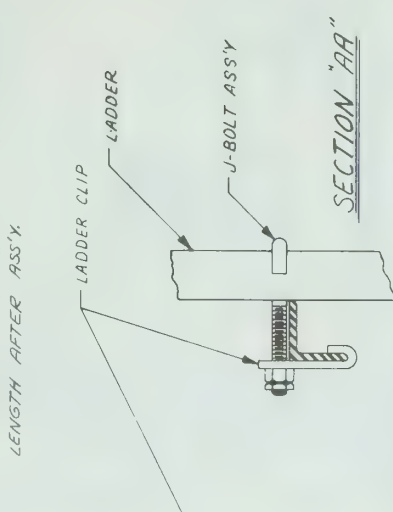
CLIP ASSY	BRACE SIZE	LADDER CLIP (R-00)	J-BOLT (2 REQ'D)
PIN#	PT. NO.	DWG. NO.	PT. NO.
KY683	L 1 1/2"	H173	B820993
KY683	L 1 3/4"	H173	B820993
KY695	L 2"	H173	B820993
KY695	L 2 1/2"	H173	B820993
KY697	L 3"	H174	B820993
KY1287A	L 3 1/2"	H174	B820993
KY1287A	L 4"	H174	B820993

4-REQUIRED FOR 20' SECTIONS;
 2-REQUIRED FOR 20' (3-BAY) SECTIONS;
 AND FOR ALL 10' SECTIONS.

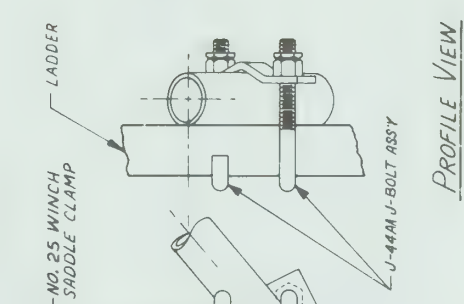
BILL OF MATERIAL ASSY NO. NL20FA		
QTY	PART NO.	DESCRIPTION
1	NL 20	20' SECTION
2	KY 95	LADDER SPICE PLATE
REF	SEE CHART	LADDER CLIP
4	210018GA	1/2 x 1 1/2 BOLT ASSY
REF	SEE CHART	J-BOLT ASSY
10' SECTION ASSY NO. NL10FA		
1	NL 10	LADDER SECTION
2	KY 95	LADDER SPICE PLATE
REF	SEE CHART	LADDER CLIP
4	210018GA	1/2 x 1 1/2 BOLT ASSY
REF	SEE CHART	J-BOLT ASSY

NOTE: AN ADDITIONAL 10 FEET OF LADDER IS PROVIDED WITH ALL TOWERS 200' & OVER. LADDER TO BE FIELD CUT TO PROPER LENGTH AFTER ASSY.

SEE DETAIL 'B'



DETAIL 'B'



PROFILE VIEW

ADD ASSEMBLY AND PART NUMBERS		
R9	ADD PART NOS.	7-22-80 AJB
R9	ADD PART NOS.	10-3-78 494
R7	REVISE R6 NOTE	1-3-77 1-24
R6	ADDED A.	7-1-75 494
R5	ADDED RING SPACING NOTE & REVISED SPICE PLATE	5-23-73 1074
R4	ADD 3" ANGLE BRACE	5-23-73 1074
R3	REVISED & REDRAWN	12-5-74 RD5

ROHN® MANUFACTURING
 DIVISION OF

FACE MOUNTED STD. LADDER ASSY FOR GUYED TOWERS & SSV TOWERS

REVISIONS		
NO.	DESCRIPTION	DATE
1	BY	DATE

ANGULAR BRACING

R13	ADDED MOUNTING HOLE FOR 3/16" DIA. FOR SSJ	12-29-87	SPW
R12	ADDED ROHN LOC NOTE	1-30-85	GLJ
R11	REV. LAD. CLIP WERE H31256, H31257, H31258, H31259, H31260, H31261, H31262, H31263, H31264, H31265, H31266, H31267, H31268, H31269, H31270, H31271, H31272, H31273, H31274, H31275, H31276, H31277, H31278, H31279, H31280, H31281, H31282, H31283, H31284, H31285, H31286, H31287, H31288, H31289, H31290, H31291, H31292, H31293, H31294, H31295, H31296, H31297, H31298, H31299, H31300, H31301, H31302, H31303, H31304, H31305, H31306, H31307, H31308, H31309, H31310, H31311, H31312, H31313, H31314, H31315, H31316, H31317, H31318, H31319, H31320, H31321, H31322, H31323, H31324, H31325, H31326, H31327, H31328, H31329, H31330, H31331, H31332, H31333, H31334, H31335, H31336, H31337, H31338, H31339, H31340, H31341, H31342, H31343, H31344, H31345, H31346, H31347, H31348, H31349, H31350, H31351, H31352, H31353, H31354, H31355, H31356, H31357, H31358, H31359, H31360, H31361, H31362, H31363, H31364, H31365, H31366, H31367, H31368, H31369, H31370, H31371, H31372, H31373, H31374, H31375, H31376, H31377, H31378, 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ROHN[®]

NO PRIME

WATER BASE

TOWER PAINT

for use on untreated galvanized surfaces

CUT YOUR INSTALLATION COSTS

Tower White and Tower Orange are protective coatings formulated with a vinyl/acrylic emulsion resin providing long-term protection and performance. These coatings offer excellent resistance to weathering, ease of application

and freedom from fire hazard. Meets FAA regulations for color coding transmission towers, Federal Standard No. 595a Colors, 12197 and 17875.

PREPARATION

Galvanized Surfaces: It is not necessary to etch or weather new galvanized surfaces. Remove all deteriorated coatings by scraping or wirebrushing. Remove grease, oil, salt, white rust, or dirt by washing with a suitable detergent solution. No primer necessary except where galvanize has been damaged, then spot prime with zinc dust primer.

APPLICATION

These products are formulated specifically for application to galvanized steel towers by paint mittens, air atomized spray or airless spray. May be applied as a one coat system. However, to assure maximum color uniformity and hiding, application of an additional coat may be desired. Will also perform well over uncoated galvanized metal surfaces and wood.

CLEAN UP WITH SOAP AND WATER

PHYSICAL CHARACTERISTICS

Type Vehicle:	Blended Vinyl Acrylic Emulsion
Type Solvent:	Water
Flash Point:	Non-Flammable
Drying Time:	At 70°F., (21°C.) and 50% Relative Humidity
Touch	1 hour
Recoat	2 - 4 hours
Hard	3 - 4 weeks
Finish:	Flat
Lead Content:	PNT-NP-05 — 9.53% by weight (Dry Film) PNT-NP-W9 — Less than .06% by weight.
Heat Resistance:	180°F., (82°C.)
Coverage:	200-400 square feet per gallon at the recommended dry film thickness of 1-2 mils.

Order PNT-NP-05 (orange) or PNT-NP-W9 (white) 11#/gallon

ROHN[®]

6718 West Plank Road
P.O. Box 2000 • Peoria, Illinois 61656

June 1, 1986

ROHN TOWER FIELD TREATING & PAINTING SPECIFICATIONS

All instruments of authorization for tower licensing, wherever antenna structures must be painted, clearly outline the manner in which such structures are to be marked. Under no circumstances is there to be any deviation, as F.C.C.'s Field Engineering & Monitoring Bureau has a tight inspection schedule and could issue violation notices to licensees who have not complied.

The pertinent rule section to be observed is:

ANTENNA STRUCTURES SHALL BE PAINTED THROUGHOUT THEIR HEIGHT WITH ALTERNATE BANDS OF AVIATION SURFACE ORANGE AND WHITE, TERMINATING WITH AVIATION SURFACE ORANGE BANDS AT BOTH TOP AND BOTTOM. THE WIDTH OF THE BANDS SHALL BE APPROXIMATELY ONE-SEVENTH THE HEIGHT OF THE STRUCTURES; HOWEVER, THE BANDS SHALL NOT BE MORE THAN 100 FEET NOR LESS THAN 1-1/2 FEET IN WIDTH. ALL TOWERS SHALL BE CLEANED OR REPAINTED AS OFTEN AS NECESSARY TO MAINTAIN GOOD VISIBILITY.

Suggested procedures for treating and painting towers in the field are:

1. Treating Galvanized Surfaces for Oil Based Paints:

Prior to painting, the surface of all tower parts shall be treated by applying with a brush a chemical solution containing the following:

2 ounces each - Copper Chloride/Copper Nitrate/Sal Ammoniac, available from Rohn in one package (Rohn Part Number T1)

2 ounces Muriatic Acid, obtain locally (Note: Muriatic Acid is extremely dangerous and should be treated carefully. Wear protective clothing, i.e. gloves, face masks/shields, glasses, etc. Follow the instructions on the container. Rohn takes no responsibility for improper use of Muriatic Acid.)

1 gallon water

2. The treated surfaces shall again be washed with plain water and allowed to completely dry before applying any paint.

3. Applying Paint:

All surfaces of all parts of the tower, including any exposed steel of the anchors, turnbuckles and cable clamps, shall be painted, except the guy wires and accessories, such as antennas, ladders, bottom of flanges, lights and cables. All bolts and nuts, which have not been painted during assembly, shall be painted after erecting.

The paint shall be applied by brushing or spraying, depending on conditions or the erector's option. All surfaces shall be uniformly covered, with no streaks or incompletely covered surfaces permitted.

Before painting, all surfaces shall be clean and free from all foreign matter. All painting shall be done in dry weather for best results. Paint shall NOT be applied on wet surfaces, nor when the relative humidity exceeds 80%, or when the temperature of the surrounding air or the surface to be painted is 50° F. or below.

Steel shall not be handled until paint is thoroughly dry. After erection, the tower paint shall be carefully touched up, assuring proper coverage of all areas to be painted.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

March 1, 1979

UNIVERSAL SIDE ARMS - 30 PSF DESIGN ONLY

(For Use With 45, 55, 65, 80, JJ, CC, & DD Towers)

<u>PART NUMBER</u>		<u>WT.</u>
D1130	Side arm - 61" to 73" from tower	70
D1230	Side arm - same as D1130 except with extra horizontal support for top of antenna	90
D1330	Side arm - 36" from tower	55
D1430	Side arm - same as D1330 except with extra horizontal support for top of antenna	75

Note: Side arms are designed to support maximum lateral thrust of 150 lbs. applied 5 ft. above top of mast support tube.

Refer to alphabetical/numercial price list for current prices.

Prices for heavier wind load requirements available upon request.

F.O.B. PEORIA, ILLINOIS

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UNIVERSAL SIDE ARMS - 30 PSF DESIGN ONLY

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D1330	Side arm - 36" from tower	55
D1430	Side arm - same as D1330 except with extra horizontal support for top of antenna	75

Note: Side arms are designed to support maximum lateral thrust of 150 lbs. applied 5 ft. above top of mast support tube.

Refer to alphabetical/numercial price list for current prices.

Prices for heavier wind load requirements available upon request.

F.O.B. PEORIA, ILLINOIS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

BILL OF MATERIAL			
ITEM	QTY.	PART NO.	DESCRIPTION
1	2	D 11 1	ARM
2	1	D 11 2	CROSSBRACE
3	2	D 11 3	BRACE
4	4	D 11 4	CLAMP SADDLE
5	1	D 10 2	MAST SUPPORT-PIPE 2 5/8" X 5' L.G.
6	4	210005GA	3/8" X 1 1/4" BOLT ASSY.
7	8	210013GA	3/8" X 4" BOLT ASSY.
8	2	UP 61A	U-BOLT ASSY.

D 11 4 CLAMP SADDLE W/
2-3/8" X 4" BOLT ASSY.

D 11 3 BRACE

3/8" X 1 1/4" BOLT ASSY.

D 11 2
CROSSBRACE

D 10 2 MAST SUPPORT
(2 5/8" O.D. X 5' LONG)

UP 61A U-BOLT ASSY.

D 11 1 ARM

VARIABLE 61" TO 73"

D 11 30 SIDE ARM

NOTE:
SIDE ARM DESIGNED TO SUPPORT A
MAXIMUM LATERAL THRUST OF 150 LB.
APPLIED 5 FT ABOVE TOP OF MAST
SUPPORT PIPE. 30 PSF DESIGN WIND LOAD

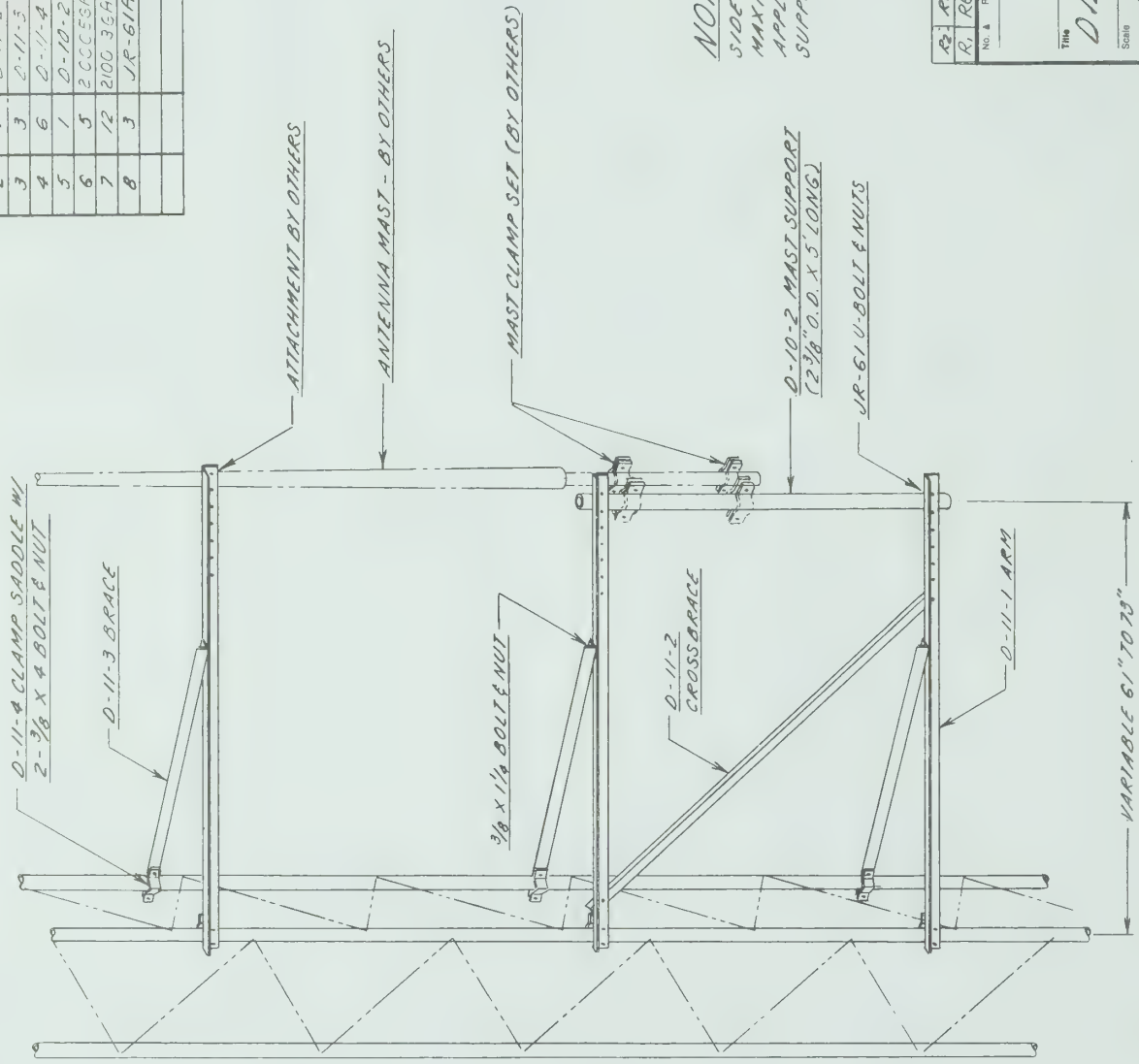
R3	REV. ASSY. PIN.	11/12/76	GLS
R1	REV. PIN & ADDED DESIGN WIND LOAD	11/27/76	MD
No	Revision	Description	Date

Unarco-Rohn
Division of Unarco Industries, Inc.

This
D 11 30 SIDE ARM ASSEMBLY

Tolerances Dimensions are given in inches			
Scale	None	Drawn by	GLS
Checked by	MD	Date	11/29/76
Approved by Engineering	MD	Date	11-3-76
Approved by Production	MD	Date	
Approved by Sales	MD	Date	11-3-76
Drawing Number	C 760571 R2		

BILL OF MATERIAL				DWG. NO.
ITEM	QUAN.	MARK NO.	DESCRIPTION	
1	3	D-11-1	ARM	C-750105 R
2	1	D-11-2	CROSS BRACE	C-750105 R
3	3	D-11-3	BRACE	C-750105 R
4	6	D-11-4	CLAMP SADDLE	
5	1	D-10-2	MAST SUPPORT-PIPE 2 STD. X 5'-5"	
6	5	2 CCGESA	3/8 X 1 1/4 SOLT ASSY.	
7	12	2100 3GA	3/8 X 4 BOLT ASSY.	
8	3	UR-61A	U-BOLT & NUTS	C-651028 R



NOTE:
 SIDE ARM DESIGNED TO SUPPORT A
 MAXIMUM LATERAL THRUST OF 130 LB.
 APPLIED 5 FT. ABOVE TOP OF MAST
 SUPPORT PIPE. 30 PSF DESIGN WIND - OAD

R3	REV. ASSY. D/W.	1/12/79	GLS
R2	REV. AN F ADDED DESIGN WIND LOAD	10-2-78	MDI
No. 1	Revision Description	Date	By

Unarco-Rohn
 Division of Unarco Industries, Inc.

Title
D1230 SIDE ARM ASSEMBLY

Scale NONE

Units: Unless otherwise specified, dimensions are given in inches.

Drawn by	GLS	Date	7/28/76
Checked by	URR	Date	7-29-76
Approved by Engineering	CW	Date	11-3-76
Approved by Production		Date	
Approved by Sales		Date	

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 File Number

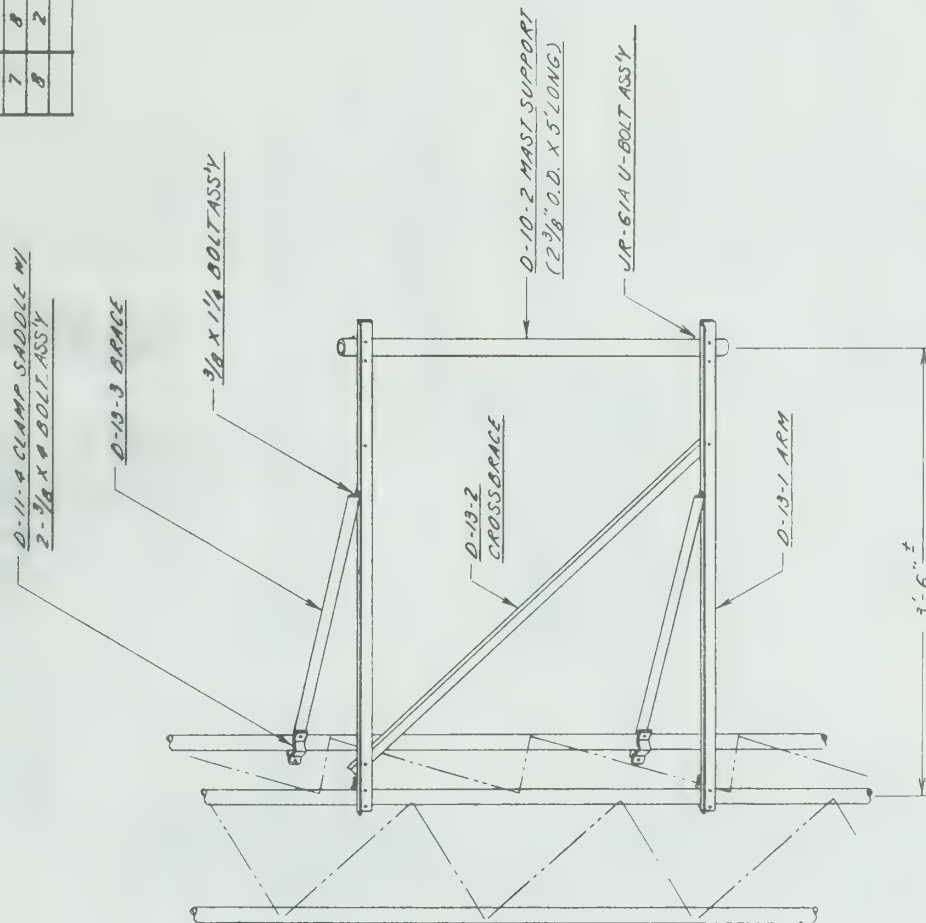
Drawing Number C-760579 R2

11-3-76

D1230 SIDE ARM

BILL OF MATERIAL

ITEM	QTY.	PART NO.	DESCRIPTION	DEF. NO.
1	2	D-13-1	ARM	C-760575R
2	1	D-13-2	CROSSBRACE	C-760575R
3	2	D-13-3	BRACE	C-760575R
4	4	D-11-4	CLAMP SADDLE	
5	1	D-10-2	MAST SUPPORT PIPE 2510. X 5'16.	
6	4	2100056A	3/8 X 1 1/4 BOLT ASS'Y	
7	8	2100136A	3/8 X 4 BOLT ASS'Y	
8	2	UR-61A	U-BOLT ASS'Y	D-651028R



NOTE:
SIDE ARM DESIGNED TO SUPPORT A
MAXIMUM LATERAL THRUST OF 150 LB.
APPLIED 5 FT. ABOVE TOP OF MAST
SUPPORT PIPE. 30 PSF DESIGN WIND LOAD

No	Revision	Description	A	By
R5		REV. ASSY. PIN	1/12/79	GLS
R4		REV. PIN & ADDED DESIGN WIND LOAD	10-2-78	MOI
R3		CORRECTED REF. DWG. NO.	7/6/77	GLS
R2		REV. BOLT & U-BOLT PIN'S	5-24-77	WHD
R1		RE-DRAW. CHANGE BOLT LENGTHS.	7/22/76	GLS

Unarco-Rohn
Division of Unarco Industries, Inc.

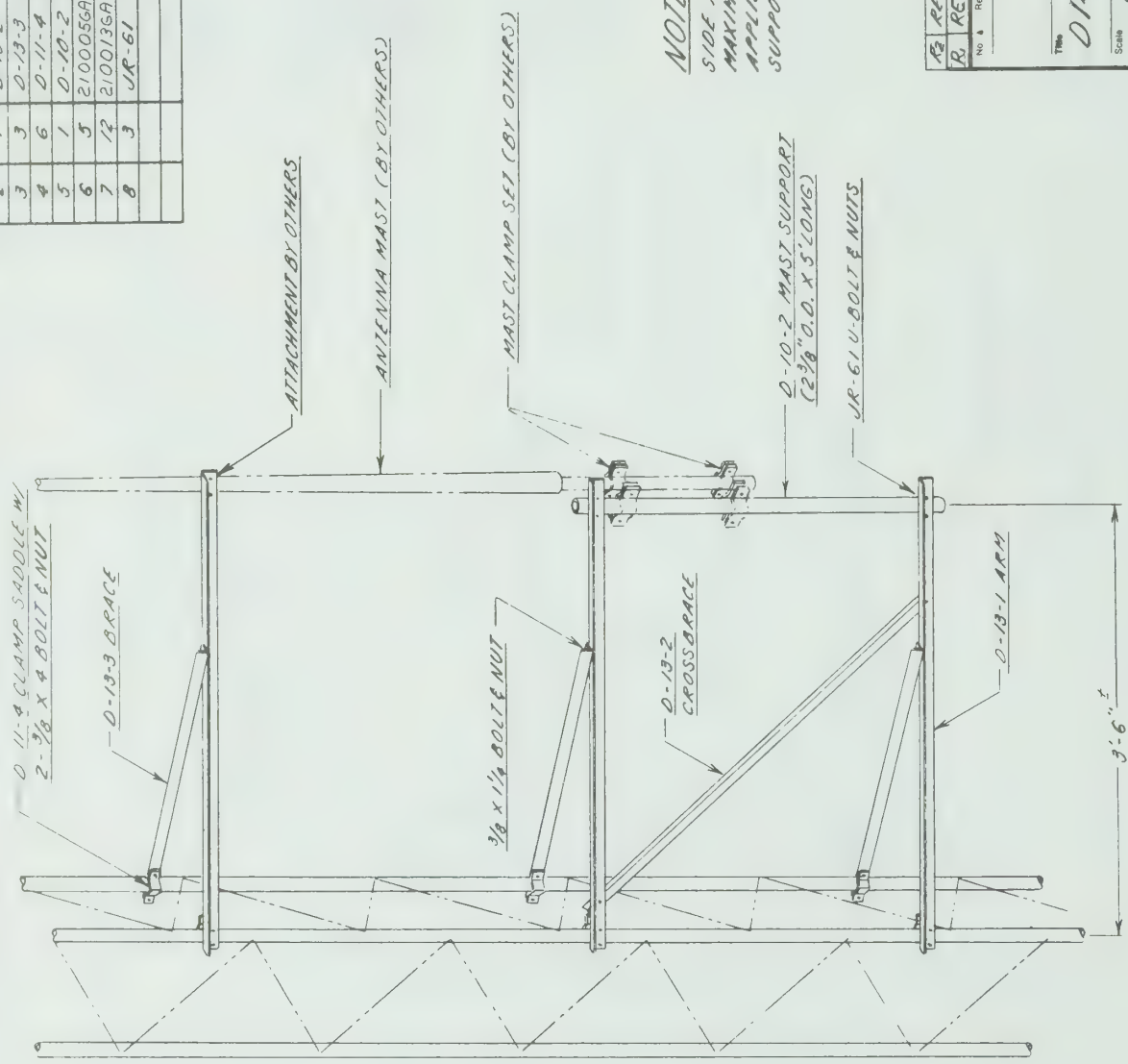
D13.30 SIDE ARM

D13.30 SIDE ARM ASSEMBLY

Scale	NONE	Drawn by	GLS	Date	7/22/76	Checked by	WHD	Date	7-29-76	Approved by	Engineering	WHD	Date	11-3-76	Approved by	Production	Approved by	Sales	BR	Date	11-3-76	Drawing Number	C-620720A
All tolerances specified dimensions are given in inches																							
Tolerances																							
Decimals																							
Fractions																							
Angles																							
Weight																							
Material																							
Finish																							
File Number																							
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BILL OF MATERIAL

ITEM	QTY	MARK NO.	DESCRIPTION	ENG. NO.
1	3	0-13-1	ARM	C-760575
2	1	0-13-2	CROSSBRACE	C-760575
3	3	0-13-3	BRACE	C-760575
4	6	0-11-4	CLAMP SADDLE	
5	1	0-10-2	MAST SUPPORT - PIPE 2 STD X 5' LG.	
6	5	2100056A	3/8 X 1 1/4 BOLT ASS'Y.	
7	12	2100136A	3/8 X 4 BOLT ASS'Y.	
8	3	JR-61	U-BOLT & NUTS	A-610208



NOTE:
SIDE ARM DESIGNED TO SUPPORT A
MAXIMUM LATERAL THRUST OF 150 LB.
APPLIED 5 FT. ABOVE TOP OF MAST
SUPPORT PIPE. 30 PSF DESIGN WIND LOAD.

REV. ASSY. PM	11/27/79	GLS
REV. P/N & ADDED DESIGN WIND LOAD	10-2-79	MDI

No. 1 Revision Description

Date 4 By

Unarco-Rohn
Division of Unarco Industries, Inc.

This D1430 SIDE ARM ASSEMBLY

Scale: NONE

Drawn by: GLS Date: 7/29/76

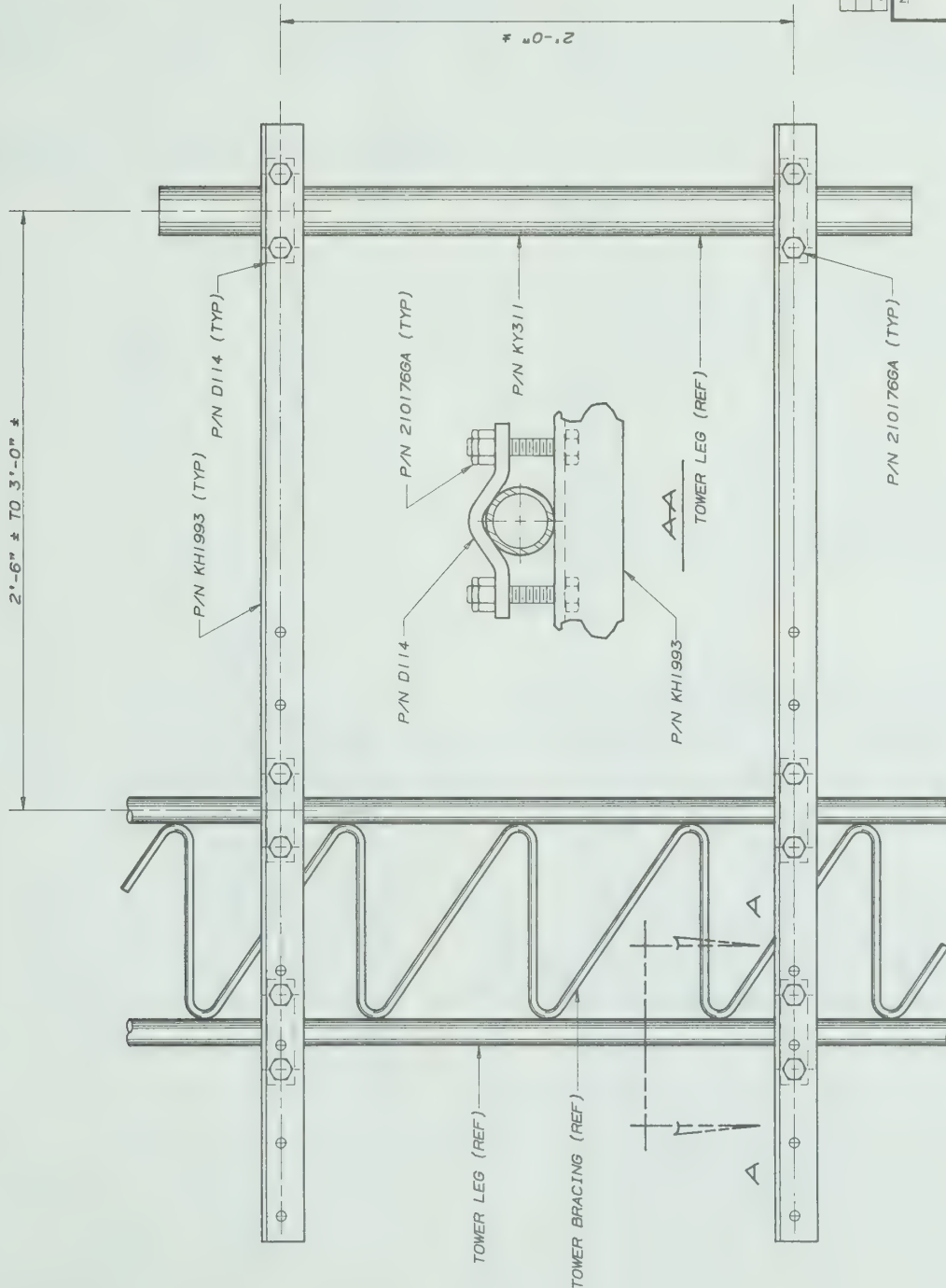
Checked by: MDI Date: 7-29-76

Approved by Engineering: CW Date: 11-3-76

Approved by Production: _____ Date: _____

Approved by Sales: BE Date: 11-3-76

Drawing Number: C-760580 R2



ASSEMBLY P/N 5A253UA BILL OF MATERIAL			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	KY311	MOUNTING TUBE 2-1/4x14 GAx3' LG
2	2	KH1993	MOUNTING ANGLE 2x1/8x4.95' LG
3	6	D114	SADDLE CLAMP
4	12	2101766A	3/8x2-1/2 BOLT ASSY
N/A			
B770214			

R3	REWORK	10/6/87	WRC
R2	2101766A WAS 2100118AW	1/24/83	WRC
R1	MTB ANGLE WAS MTB PIPE, REMOVED CONN. PLATES	1/11/83	WRC

No.	Revision Description	Date	By
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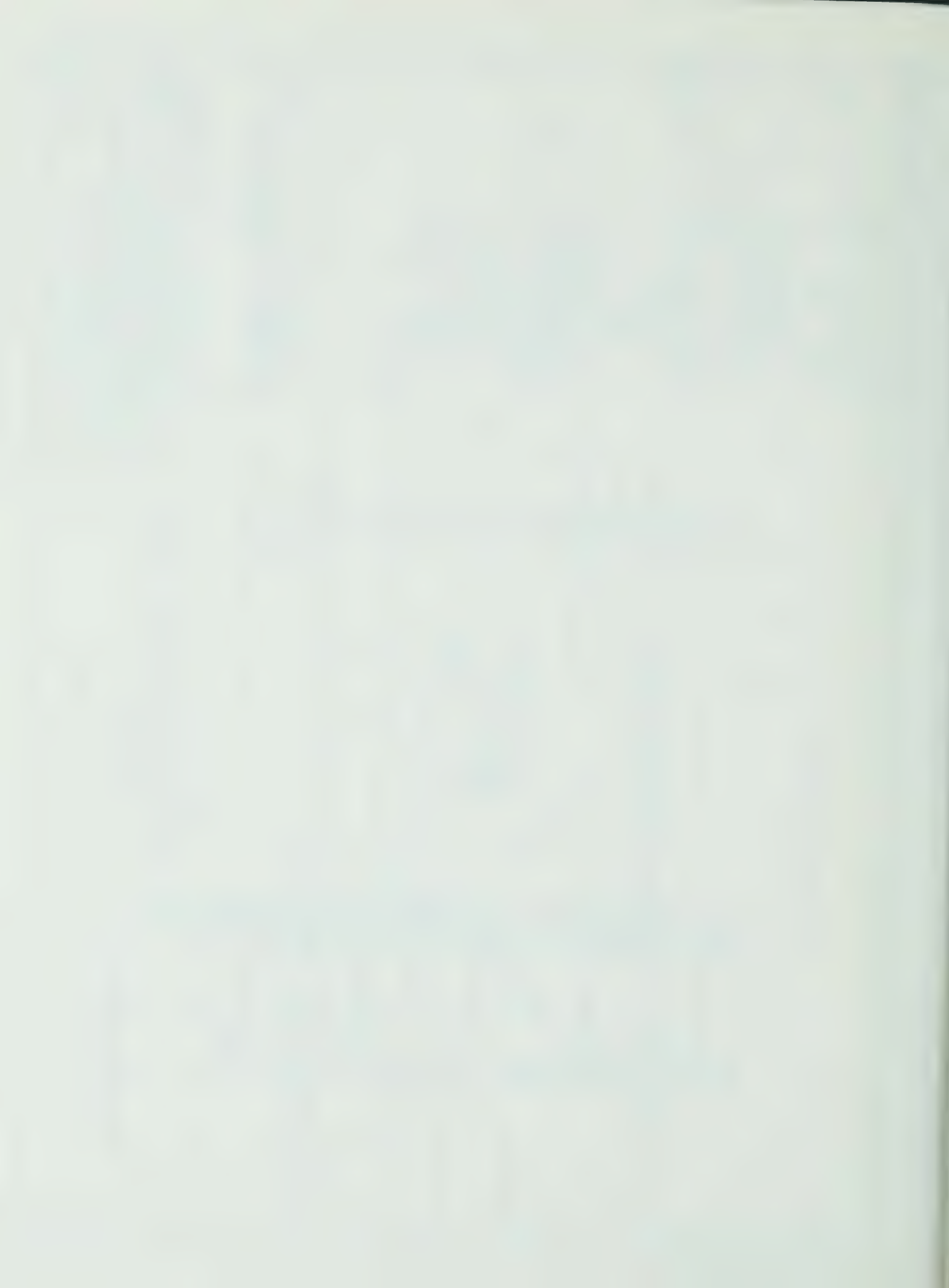
UNR-Rohn

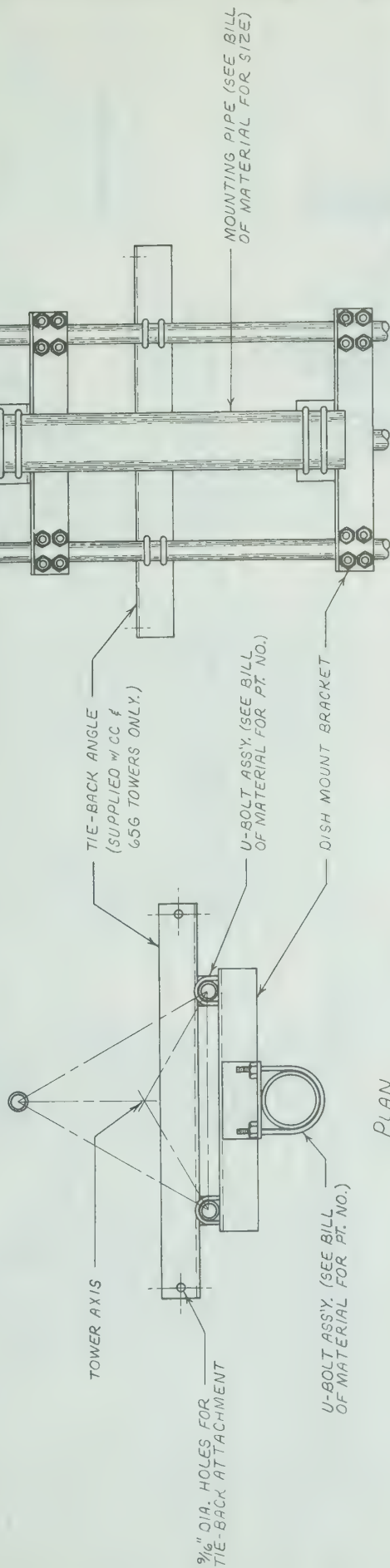
SIDE ARM ASSY 2.5'-3.0' UNIVERSAL
FOR 25G, 45G, 55G, 65G, J & C TOWERS
 Scale: Unless otherwise specified, dimensions are given in inches

Drawn by	Date	Tolerances	Fractions	Angles
AWG	12/17/82	NONE		
Checked by	Date	Material	Finish	Weight
GFW	12/22/82			
Approved by Engineering	Date	This drawing is the property of UNR-Rohn. It is not to be reproduced, copied or traced in whole or in part without our written consent.		
TS	12/27/82	File Number		
Approved by Production	Date	Drawing Number		
		CB21662R3		
Approved by Sales	Date	Drawing Number		
		CB21662R3		

NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 90 LBS LATERAL THRUST

NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY





ELEVATION

PLAN

* NOTE: JR 65A USED FOR MODEL NO. 45 & 55 TOWER

BILL OF MATERIAL

ASSY. NO.	PART NO.	QTY.	DESCRIPTION	DWG. NO.	ASSY. NO.	PART NO.	QTY.	DESCRIPTION	DWG. NO.
DM 25 G 2	KY 156	2	DISH MOUNT BRACKET	B 760792 R2	DM JJ 2	KY 170	2	DISH MOUNT BRACKET	B 760805 R2
	KH 275	1	MOUNTING PIPE - 2" STD. 5' LG.	B 770160 R2		KH 275	1	MOUNTING PIPE - 2" STD. 5' LG.	B 770160 R2
	JR 66A	8	U-BOLT ASSY.	B 651028 R4		JR 65A	8	U-BOLT ASSY.	B 651028 R4
	JR 61A	4	U-BOLT ASSY.	B 651028 R4		JR 61A	4	U-BOLT ASSY.	B 651028 R4
DM 25 4	KY 156	2	DISH MOUNT BRACKET	B 760792 R2	DM JJ 4	KY 170	2	DISH MOUNT BRACKET	B 760805 R2
	KH 275	1	MOUNTING PIPE - 4" STD. 5' LG.	B 770160 R2		KH 279	1	MOUNTING PIPE - 4" STD. 5' LG.	B 770160 R2
	JR 66A	8	U-BOLT ASSY.	B 651028 R4		JR 65A	8	U-BOLT ASSY.	B 651028 R4
	JR 63A	4	U-BOLT ASSY.	B 651028 R4		JR 63A	4	U-BOLT ASSY.	B 651028 R4
DM 45 G 2	KY 156	2	DISH MOUNT BRACKET	B 760792 R2	DM 65 4	KY 169	2	DISH MOUNT BRACKET	B 760804 R2
	KH 275	1	MOUNTING PIPE - 2" STD. 5' LG.	B 770160 R2		KH 279	1	MOUNTING PIPE - 4" STD. 5' LG.	B 770160 R2
	JR 65A	8	U-BOLT ASSY.	B 651028 R4		JR 61A	8	U-BOLT ASSY.	B 651028 R4
	JR 61A	4	U-BOLT ASSY.	B 651028 R4		JR 63A	4	U-BOLT ASSY.	B 651028 R4
DM 45 4	KY 156	2	DISH MOUNT BRACKET	B 760792 R2	DM 65 4 TB	KY 171	1	TIE-BACK ANGLE	B 760804 R2
	KH 279	1	MOUNTING PIPE - 4" STD. 5' LG.	B 770160 R2		KH 279	1	MOUNTING PIPE - 4" STD. 5' LG.	B 770160 R2
	JR 65A	8	U-BOLT ASSY.	B 651028 R4		JR 61A	12	U-BOLT ASSY.	B 651028 R4
	JR 63A	4	U-BOLT ASSY.	B 651028 R4		JR 63A	4	U-BOLT ASSY.	B 651028 R4
DM 55 G 2	KY 156	2	DISH MOUNT BRACKET	B 760792 R2	DM CC 4	KY 169	2	DISH MOUNT BRACKET	B 760804 R2
	KH 275	1	MOUNTING PIPE - 2" STD. 5' LG.	B 770160 R2		KH 279	1	MOUNTING PIPE - 4" STD. 5' LG.	B 770160 R2
	JR 65A	8	U-BOLT ASSY.	B 651028 R4		JR 60A	8	U-BOLT ASSY.	B 651028 R4
	JR 61A	4	U-BOLT ASSY.	B 651028 R4		JR 63A	4	U-BOLT ASSY.	B 651028 R4
DM 55 4	KY 156	2	DISH MOUNT BRACKET	B 760792 R2	DM CC 4 TB	KY 171	1	TIE-BACK ANGLE	B 760804 R2
	KH 279	1	MOUNTING PIPE - 4" STD. 5' LG.	B 770160 R2		KH 279	1	MOUNTING PIPE - 4" STD. 5' LG.	B 770160 R2
	JR 65A	8	U-BOLT ASSY.	B 651028 R4		JR 60A	12	U-BOLT ASSY.	B 651028 R4
	JR 63A	4	U-BOLT ASSY.	B 651028 R4		JR 63A	4	U-BOLT ASSY.	B 651028 R4

GENERAL NOTES

1. DISH MOUNT SUPPLIED WITH 4" STD. (9 1/2" O.D.) OR 2" STD. (2 3/8" O.D.) MTG. PIPE. (CC & 65G TOWER SUPPLIED WITH 4" STD. MTG. PIPE ONLY) BE MOUNTED ON FACES OTHER THAN SHOWN PER ORIENTATION REQUIREMENTS.
2. DISH MOUNT BRACKETS & TIE-BACK ANGLE MAY BE MOUNTED ON FACES OTHER THAN SHOWN PER ORIENTATION REQUIREMENTS.
3. DISH TIE-BACK STRUT (BY OTHERS) MUST BE AS CLOSE TO PERPENDICULAR AS POSSIBLE TO DISH FACE.
4. FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
5. DWG'S. LISTED IN BILL OF MATERIAL ARE FABRICATION DWG'S. - FOR SHOP USE ONLY.
6. PAL NUTS ARE PROVIDED FOR ALL U-BOLTS.

R3 REVISE NO. 65 F. CC TOWER U-BOLTS 7-5-76 MD
R2 REVISE NO. 45 TOWER U-BOLT 11-10-77 R2
R1 REVISE U-BOLT P/N 5-6-77 3039L

UPDATED DRAWING

Unarco-Rohn

Division of Unarco Industries, Inc.

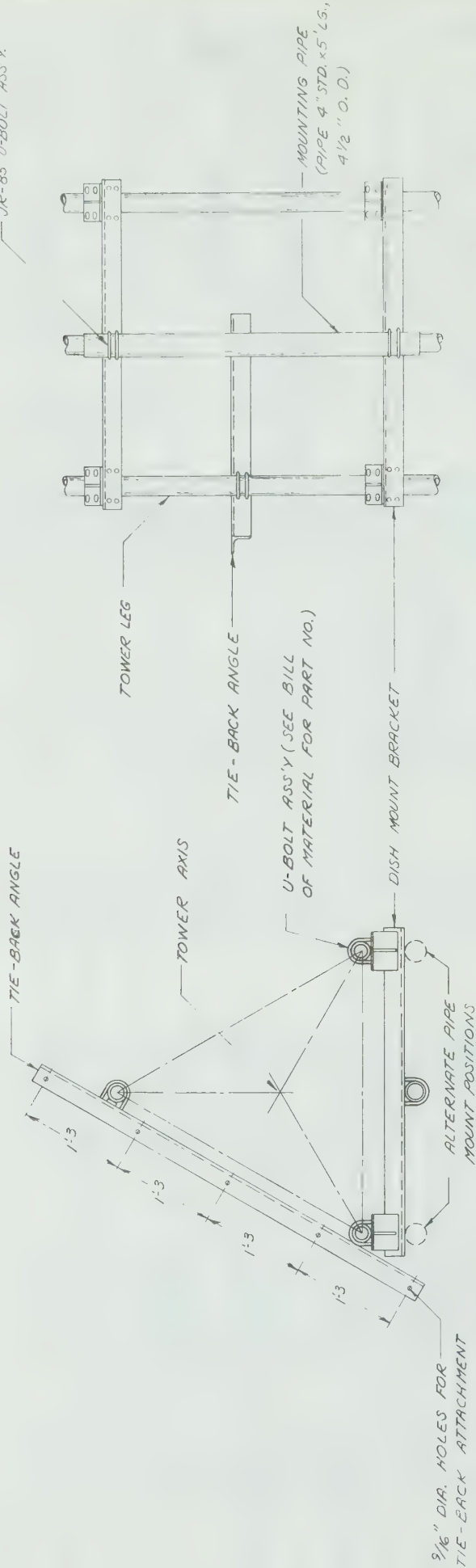
Title DISH MOUNT ASSEMBLY FOR
Model Nos. 25, 45, 55, JJ, 65 & CC TOWERS

Tolerances ±				Angles ±			
Decimals	Fractions	Finish	Weight	Decimals	Fractions	Finish	Weight
Drawn by	MDI	10-13-76		Checked by	MDI	10-13-76	
Approved by Engineering	MDI	10-15-76		Approved by Production	MDI	10-15-76	
Approved by Sales	MDI	10-21-76		Approved by Production	MDI	10-21-76	

Drawing Number

C 760796 R4

JR-85 U-BOLT ASS'Y



ELEVATION

GENERAL NOTES

1. DISH MOUNT BRACKETS & TIE-BACK ANGLE MAY BE MOUNTED ON FACES OTHER THAN SHOWN PER ORIENTATION REQUIREMENTS.
2. DISH TIE-BACK STRUT (BY OTHERS) MUST BE AS CLOSE TO PERPENDICULAR AS POSSIBLE TO DISH FACE
3. FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
4. DRAWINGS LISTED IN BILL OF MATERIAL ARE FAB. DRAWINGS - FOR SHOP USE ONLY.
5. ALL NUTS ARE PROVIDED FOR ALL U-BOLTS.

BILL OF MATERIAL

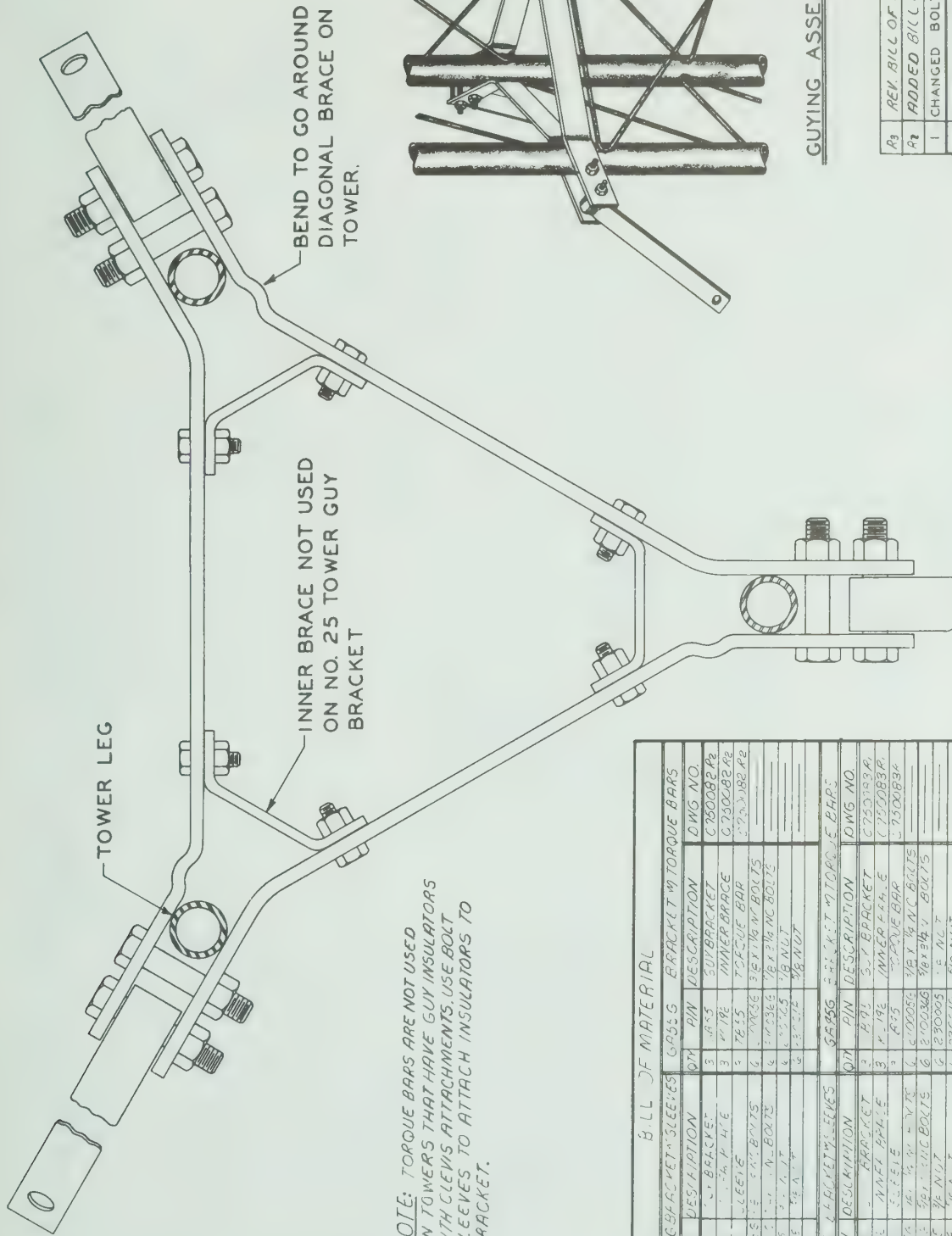
ASSY NO.	PART NO.	QTY	DESCRIPTION	DWG. NO.	ASSY. NO.	PART NO.	QTY	DESCRIPTION	DWG. NO.
DM-83-4	KY-172	2	DISH MOUNT BRACKET	B-760809	DM-84-4	KY-51	2	DISH MOUNT BRACKET	B-730908-R1
	KH-279	1	MOUNTING PIPE	B-770160-R1		KH-279	1	MOUNTING PIPE	B-770160-R1
	JR-844	8	U-BOLT ASS'Y	B-651028-R16		JR-844	8	U-BOLT ASS'Y	B-651028-R16
	JR-85A	4	U-BOLT ASS'Y	B-651028-R16		JR-85A	4	U-BOLT ASS'Y	B-651028-R16
DM-84-4TB	KY-172	2	DISH MOUNT BRACKET	B-760809	DM-84-4TB	250011G	16	1/2" FLAT WASHERS	B-651028-R16
	KH-279	1	MOUNTING PIPE	B-770160-R1		KY-51	2	DISH MOUNT BRACKET	B-730908-R1
	KY-173	1	TIE-BACK ANGLE	B-760810		KH-279	1	MOUNTING PIPE	B-770160-R1
	JR-844	12	U-BOLT ASS'Y	B-651028-R16		KY-91	1	TIE-BACK ANGLE	B-750371
DM-85-4	JR-85A	4	U-BOLT ASS'Y	B-651028-R16	DM-85-4	JR-844	12	U-BOLT ASS'Y	B-651028-R16
	KY-51	2	DISH MOUNT BRACKET	B-730908-R1		JR-85A	4	U-BOLT ASS'Y	B-651028-R16
	KH-279	1	MOUNTING PIPE	B-770160-R1		250011G	24	1/2" FLAT WASHER	B-651028-R16
	JR-83A	8	U-BOLT ASS'Y	B-651028-R16		KY-51	2	DISH MOUNT BRACKET	B-730908-R1
DM-83-4TB	JR-85A	4	U-BOLT ASS'Y	B-651028-R16	DM-85-4TB	KH-279	1	MOUNTING PIPE	B-770160-R1
	250011G	16	1/2" FLAT WASHER	B-651028-R16		KY-91	1	TIE-BACK ANGLE	B-750371
	KY-51	2	DISH MOUNT BRACKET	B-730908-R1		JR-88A	12	U-BOLT ASS'Y	B-651028-R16
	KH-279	1	MOUNTING PIPE	B-770160-R1		JR-85A	4	U-BOLT ASS'Y	B-651028-R16
DM-83-4TB	KY-91	1	TIE-BACK ANGLE	B-750371	DM-85-4TB	250011G	24	1/2" FLAT WASHER	B-651028-R16
	JR-83A	2	U-BOLT ASS'Y	B-651028-R16		DM-85-4TB			
	JR-85A	4	U-BOLT ASS'Y	B-651028-R16					
	250011G	24	1/2" FLAT WASHER	B-651028-R16					

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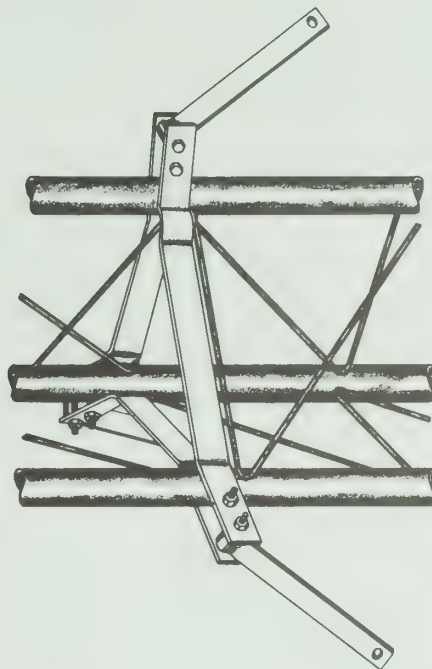
Division of Unarco Industries, Inc.

THIS DISH MOUNT ASSEMBLY FOR MODEL "D" 4" x 80" TOWERS

Scale	None	Date	10-4-76
Drawn by	W. J. J.	Checked by	M. J. J.
Approved by Engineering	C. J. J.	Approved by Production	
File Number		Date	10-25-76
Approved by Sales	A. R.	Date	10-28-76
Drawing Number	C-760776		R1



NOTE: TORQUE BARS ARE NOT USED ON TOWERS THAT HAVE GUY INSULATORS WITH CLEVIS ATTACHMENTS. USE BOLT SLEEVES TO ATTACH INSULATORS TO BRACKET.



GUYING ASSEMBLY

A ₃	REV. BILL OF MATERIAL	Q/D 79	17
A ₂	ADDED BILL OF MATERIAL	12 2778	24
1	CHANGED BOLT REQUIREMENTS	8-4-71	34
NO	DESCRIPTION	DATE	BY

REVISIONS

ROHN

TYPICAL GUY ASSEMBLY

TITLE

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SCALE	NONE	MATERIAL	THICK	INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN
DATE	4-25-68	BY	A. JOHNSON	INCHES	DWG NO.
DATE	4-25-68	BY	A. JOHNSON	INCHES	C 680425
DATE	4-25-68	BY	A. JOHNSON	INCHES	R3

BILL OF MATERIAL			
G653C BRACKET SLEEVES			
QTY	PIN	DESCRIPTION	DWG NO.
3	3552	GUY BRACKET	C750082 R2
3	1413	INNER BRACE	C750082 R2
3	1000	TORQUE BAR	C750082 R2
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
G653C BRACKET SLEEVES			
QTY	PIN	DESCRIPTION	DWG NO.
3	3552	GUY BRACKET	C750082 R2
3	1413	INNER BRACE	C750082 R2
3	1000	TORQUE BAR	C750082 R2
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
G653C BRACKET SLEEVES			
QTY	PIN	DESCRIPTION	DWG NO.
3	3552	GUY BRACKET	C750082 R2
3	1413	INNER BRACE	C750082 R2
3	1000	TORQUE BAR	C750082 R2
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	
6	1000	1/2" X 1/2" NC BOLTS	

TYPICAL GUY BRACKET ASSEMBLY

NO. 25, 45, & 55

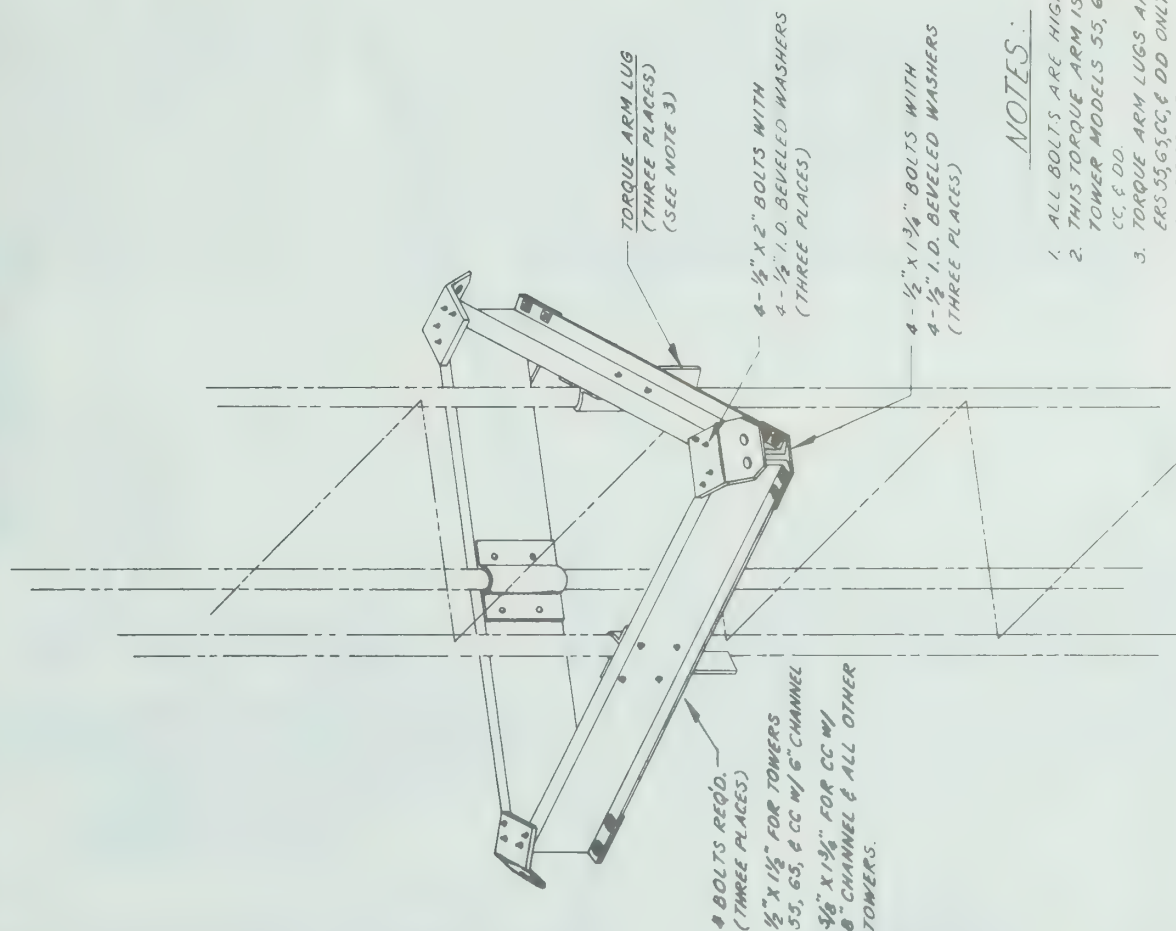


ELEVATION

NO	DESCRIPTION	DATE	BY
R1	ADDED TORQUE ARM LUG & NOTES 2 & 3	02/26/77	GLS

REVISED									
TITLE									
CHANNEL TORQUE ARM ASSEMBLY									
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.									
FILE NO.									
<table><tr><td>SECTION</td><td>MATERIAL</td><td>QUANTITY</td><td>UNIT</td></tr><tr><td colspan="4">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES</td></tr></table>		SECTION	MATERIAL	QUANTITY	UNIT	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES			
SECTION	MATERIAL	QUANTITY	UNIT						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES									
DATE	BY	CHK	TRACED	ASBLER	DWG NO				
02/26/77	D. ROSS	0-1-2	2	2	C-690737				
DATE	BY	CHK	TRACED	ASBLER	R1				
02/26/77	A. JOHNSON	0-1-2	2	2					

TORQUE ARM ASSEMBLY



NOTES:

1. ALL BOLTS ARE HIGH STRENGTH.
2. THIS TORQUE ARM IS AVAILABLE FOR TOWER MODELS 55, 65, 82, 83, 84, 85, CC, & DD.
3. TORQUE ARM LUGS ARE PROVIDED FOR TOWERS 55, 65, CC, & DD ONLY. TORQUE ARM BEARS ON BRACE CLIPS ON MODEL 80 TOWERS.

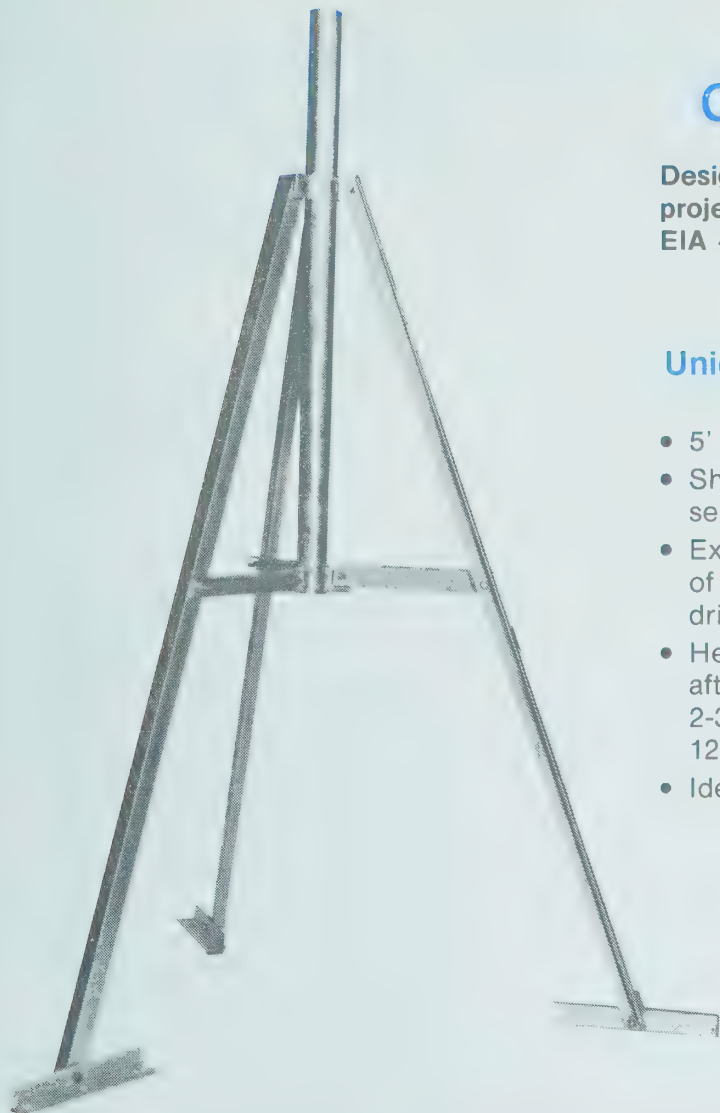
ROOF MOUNT TRT AG2

HEAVY DUTY COMMERCIAL QUALITY

Designed to support one antenna up to 3 sq. ft. projected area in EIA 50# wind load or 4 sq. ft. in EIA 40# wind load.

Unique Features . . .

- 5' total effective height.
- Shipped completely knocked-down for easy assembly in remote areas.
- Extra length adjustable base feet for wide range of mounting conditions (anchor bolts not included) drilled to accept 3/8" anchors.
- Heavy duty steel construction, hot dip galvanized after fabrication for long life and durability. With 2-3/8" O.D. mast pipe extending approximately 12 inches above apex.
- Ideal mount to include in your antenna packages.



Do not install towers or masts near power lines. All towers or masts should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

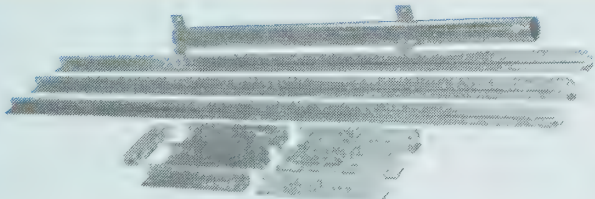
UNR-Rohn recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local or national codes.

The mixing of so-called interchangeable copies of Rohn towers with Rohn towers is dangerous and voids all engineering or warranty data supplied by UNR-Rohn. Materials used by the so-called copies are not the same quality and have not been tested or engineered by UNR-Rohn to conform to the same quality standards. Mixing of non-Rohn items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

- 
- Completely Knocked-Down
 - Easy Shipping • Easy Assembly

ROHN

6718 West Plank Road
P.O. Box 2000 • Peoria, Illinois 61656

NOTICE

Tower to be climbed by trained and authorized personnel only.

Check tower and base before dismantling. It may not support a man.

Rohn

owner



This "notice" sign should be attached to all towers/bases in a conspicuous location so that all unauthorized and inexperienced personnel are notified and warned.

On large self-supporting towers signs should be attached on all three legs (if they are climbable) or on the ladder.

Aluminum wire is furnished for attaching signs. We highly recommend you check frequently to make sure the sign has not been removed. These 6" x 9" signs may be ordered prepaid for \$6.00 each. Specify part No. ACWS.

TOWER ERECTORS: Please see that these signs are attached as per the instructions above *prior to leaving the tower site.*

ROHN

6718 West Plank Road
P.O. Box 2000 • Peoria, Illinois 61656
Phone: 309-697-4400
TWX 910-652-0646
FAX 309-697-5612

PRE-ASSEMBLED/ALL WELDED CONSTRUCTION

UTILITY TABLE



The ideal all purpose work table where mobility is important.

The perfect answer for: TV service shops, hotels, motels, hospitals, office, and home. Provides a work area 24" X 24" and 30½" high. Baked enamel finish.

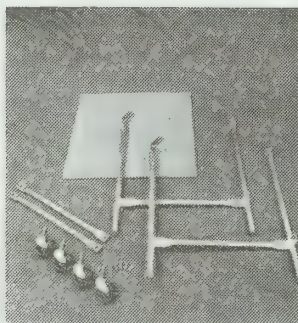
PART NO.	WEIGHT
TVST 500 w/o shelf	28 lbs.
TVST 600 with shelf	30 lbs.



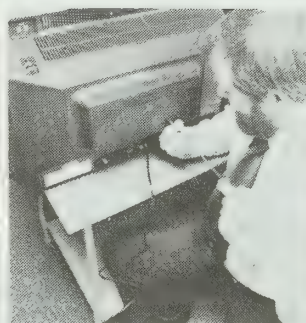
Division of UNR, Inc.
6718 West Plank Road, P.O. Box 2000
Peoria, Illinois 61656

KNOCKED DOWN READY TO ASSEMBLE

UTILITY TABLE



TVST400KD



TV Service



Office



Home

Has the same uses as the pre-assembled units. Comes knocked down, easy to assemble. Bottom shelf optional, must be ordered separately. Work area 24" X 24" and 30½" high. Pre-Galvanized finish.

PART NO.	WEIGHT
Table	
TVST400KD	24 lbs
Optional Shelf	
TVST400SH	8 lbs

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

All antenna installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

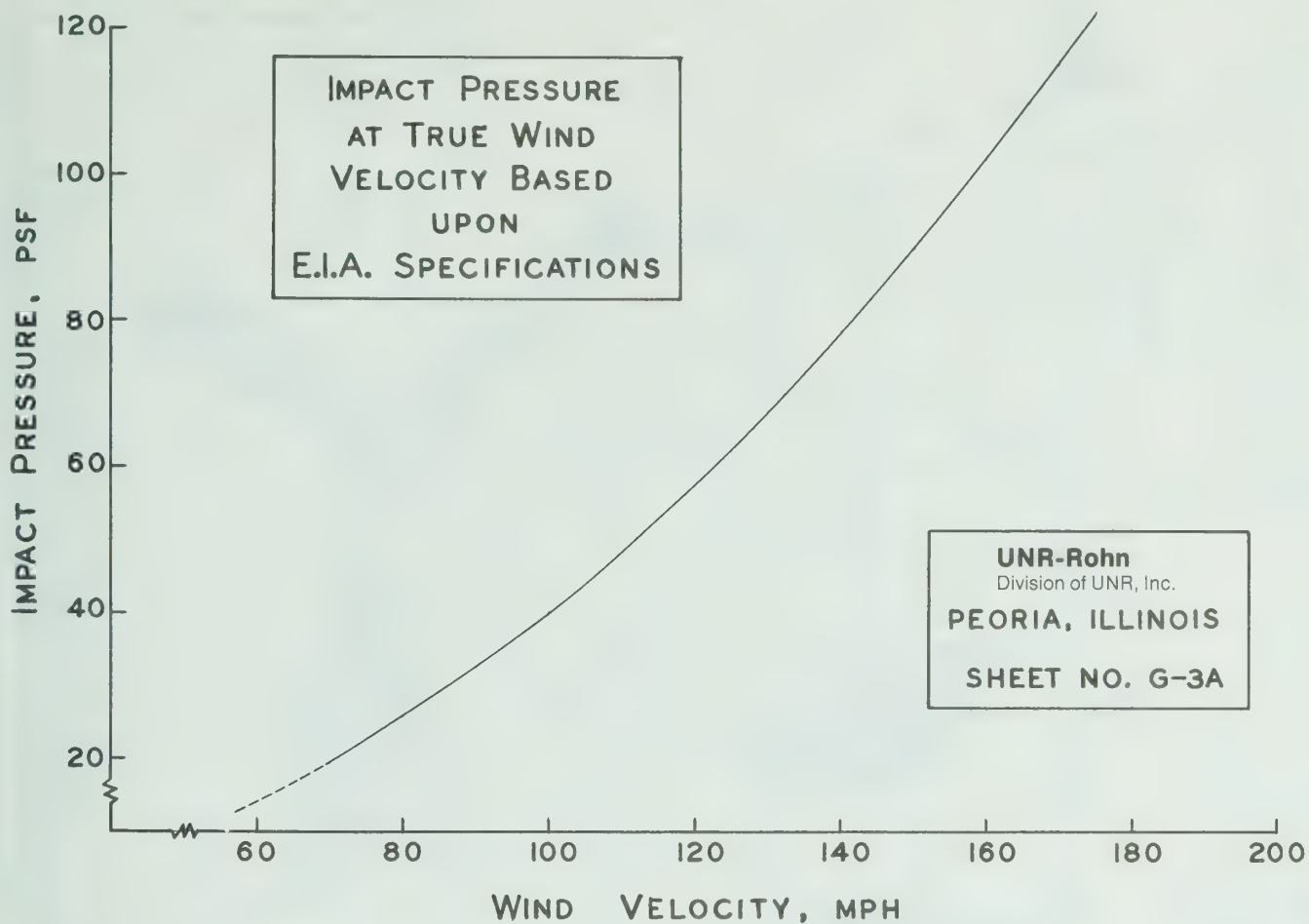
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RAK	04-16-75	C640531	R3
-----	----------	---------	----



TRUE WIND VELOCITY, MPH	IMPACT PRESSURE, LBS./SQ.FT.
70	19.6
70.7	20.0
75	22.5
80	25.6
85	28.9
86.6	30.0
90	32.4
95	36.1
100	40.0
105	44.1
110	48.4
111.8	50.0
115	52.9
120	57.6
122.5	60.0
125	62.5

TRUE WIND VELOCITY, MPH	IMPACT PRESSURE, LBS./SQ.FT.
130	67.6
132.3	70.0
135	72.9
140	78.4
141.4	80.0
145	84.1
150	90.0
155	96.1
158.1	100.0
160	102.4
165	108.9
165.8	110.0
170	115.6
173.2	120.0
175	122.5

LOADING ZONE

Heights Zone (above ground)

A	$\frac{B}{40}$	$\frac{C}{50}$
30	40	50
35	48	60
50	65	85

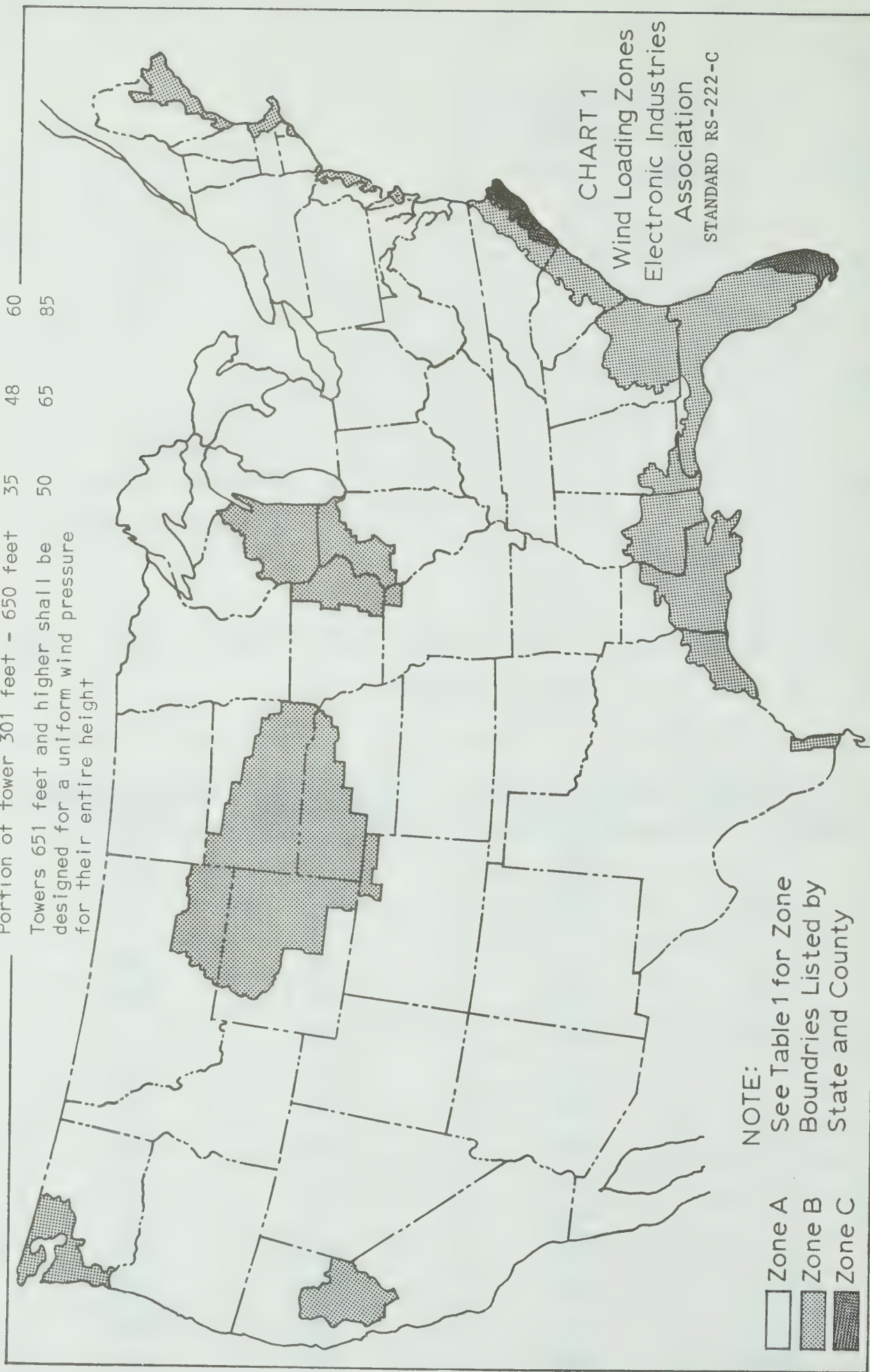
Portion of tower 300 feet and under
 Portion of tower 301 feet - 650 feet
 Towers 651 feet and higher shall be
 designed for a uniform wind pressure
 for their entire height

CHART 1
 Wind Loading Zones
 Electronic Industries
 Association
 STANDARD RS-222-C

NOTE:

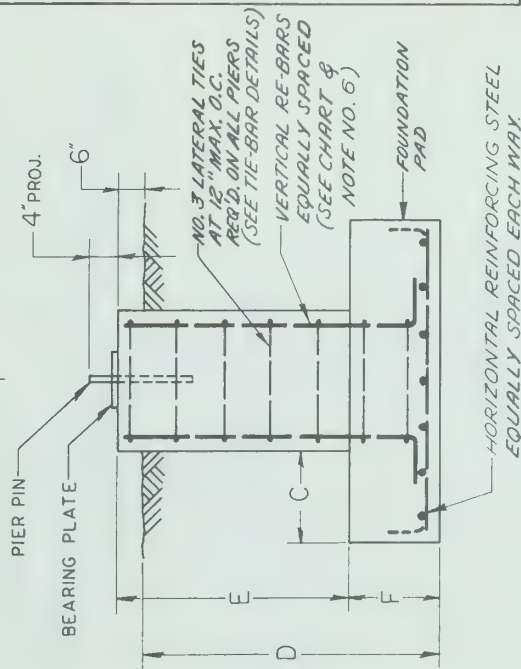
See Table 1 for Zone
 Boundaries Listed by
 State and County

Zone A
 Zone B
 Zone C



Location of wind loading zones based on 50 year mean recurrence interval chart from distribution of extreme winds in the United States by H. C. S. Thom published in the proceedings of the American Society of Civil Engineers. April 1960.

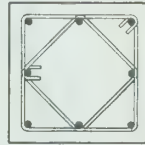
A diagram showing a large square with side length B . Inside it, a smaller square is inscribed with side length A . The center of the large square is marked with a dot, and the center of the inscribed square is also marked with a dot. The distance from the center of the large square to the center of the inscribed square is labeled A .



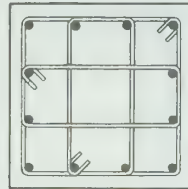
8. NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.



CB1 THRU CB6



CB7 THRU CB13



CB14 & CB15

CB NO.	Tower Base Reaction	Dimensions						Bearing Plate	Conc. (cu. yds)	Vertical Bars (No. & size)	Horiz. Bars (No. & size)
		A	B	C	D	E	F				
1	14000	2'-0	2'-0	0	4'-0	0	0	BP 6	.70	4-NO. 6	NONE*
2	22000	2'-6	2'-6	0	4'-0	0	0	BP 6	1.00	4-NO. 6	NONE*
3	32000	3'-0	3'-0	0	4'-0	0	0	BP 6	1.50	4-NO. 6	NONE*
4	44000	3'-6	3'-6	0	4'-0	0	0	BP 6	2.10	4-NO. 6	NONE*
5	58000	2'-0	4'-0	1'-0"	4'-0	3'-3	1'-3	BP 6	1.22	4-NO. 6	6-NO. 4
6	74000	2'-0	4'-6	1'-3"	4'-0	3'-3	1'-3	BP 6	1.42	4-NO. 6	6-NO. 5
7	90000	2'-0	5'-0	1'-6	4'-6	3'-9	1'-3	BP 10	1.70	8-NO. 6	6-NO. 5
8	109000	2'-0	5'-6	1'-9	4'-6	3'-9	1'-3	BP 10	2.00	8-NO. 6	6-NO. 5
9	130000	2'-0	6'-0	2'-0	4'-6	3'-6	1'-6	BP 10	2.50	8-NO. 6	7-NO. 5
10	150000	2'-0	6'-6	2'-3	4'-6	3'-6	1'-6	BP 10	2.90	8-NO. 6	8-NO. 5
11	173000	2'-6	7'-0	2'-3	5'-0	3'-9	1'-9	BP 15	4.00	8-NO. 7	8-NO. 6
12	198000	2'-6	7'-6	2'-6	5'-0	3'-9	1'-9	BP 15	4.50	8-NO. 7	8-NO. 6
13	224000	2'-6	8'-0	2'-9	5'-0	3'-9	1'-9	BP 15	5.00	8-NO. 7	9-NO. 6
14	251000	3'-0	8'-6	2'-9	5'-0	3'-6	2'-0	BP 15	6.50	12-NO. 7	9-NO. 7
15	279000	3'-0	9'-0	3'-0	5'-0	3'-6	2'-0	BP 15	7.20	12-NO. 7	10-NO. 7

TIE BAR DETAILS

R ₂	ADDED NOTE	7-6-76	DA
R ₁	RE-DRAWN-SUPERSEDES C6106210	2-26-75	DA
NO.	DESCRIPTION	DATE	BY

ROHN® MANUFACTURING

DIVISION OF
 CHICAGO
 DEPARTMENT OF PUBLIC HEALTH

CONCRETE BASE SCHEDULE

TITLE

THIS DRAWING IS THE PROPERTY OF ROHM. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

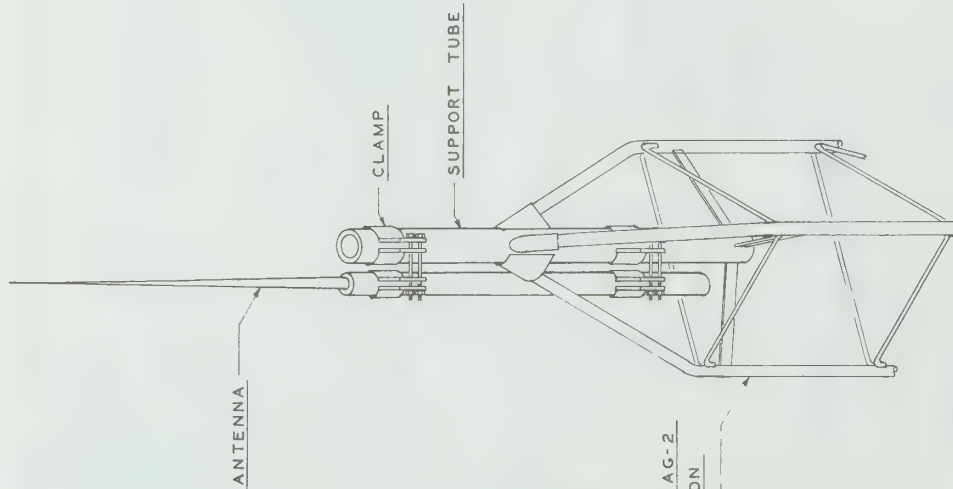
REV	GEN. NOTES	ADDED	DATE	BY	MATERIAL	FINISH		DWG. NO.
						INCHES	WT.	
R6	REV GEN. NOTES	ADDED	1-9-85	RMB				
R5	ADDED GENERAL NOTE#9		1-21-80	JMD				
R4	REMOVED RS-222-B FROM GEN. NOTE NO. 7.		3/7/77	GLS				
R3	DELETE SIZE PIER PIN.		7/29/76	GLS				

GAF 990-250 2.72 40104

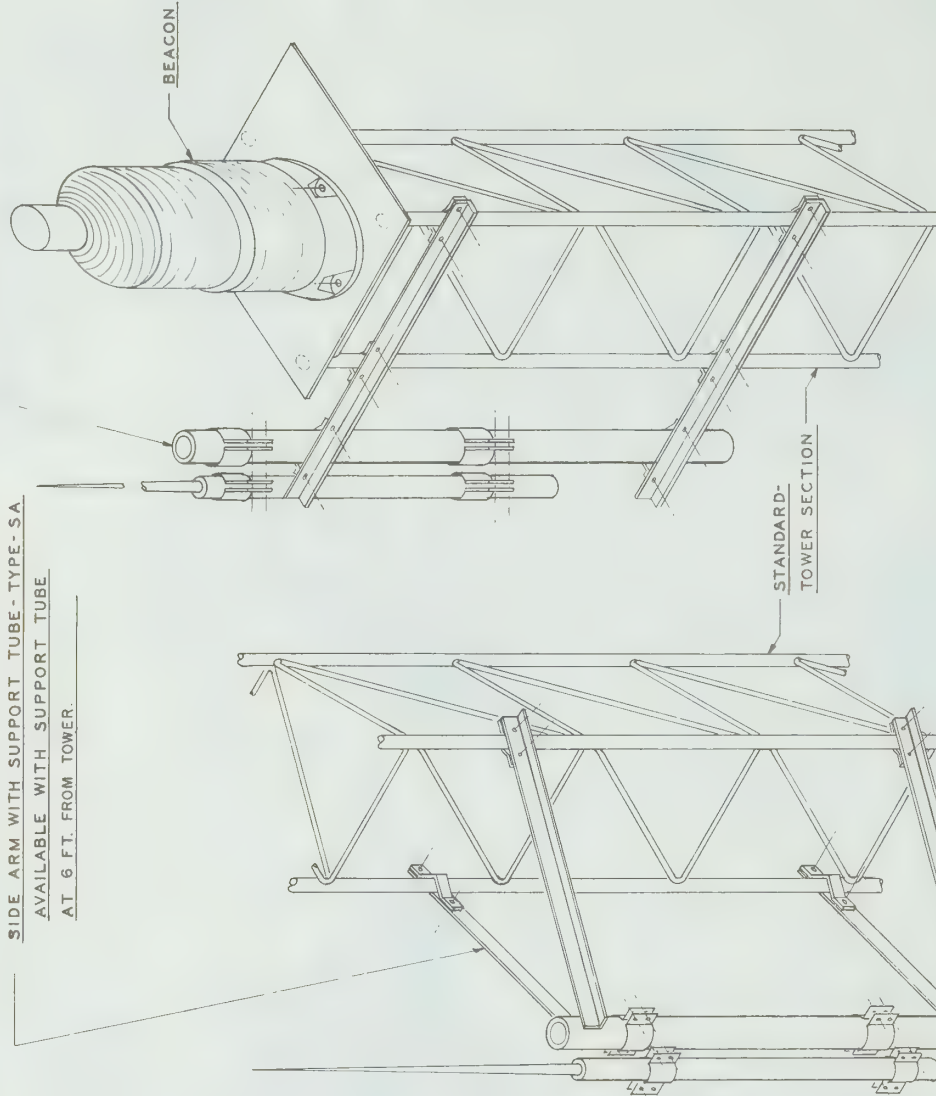
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MOUNTING BRACKET - TYPE-SA253UA
WITH SUPPORT TUBE

SIDE ARM WITH SUPPORT TUBE - TYPE-SA
AVAILABLE WITH SUPPORT TUBE
AT 6 FT. FROM TOWER.



STANDARD AG-2
TOP SECTION
SHOWN



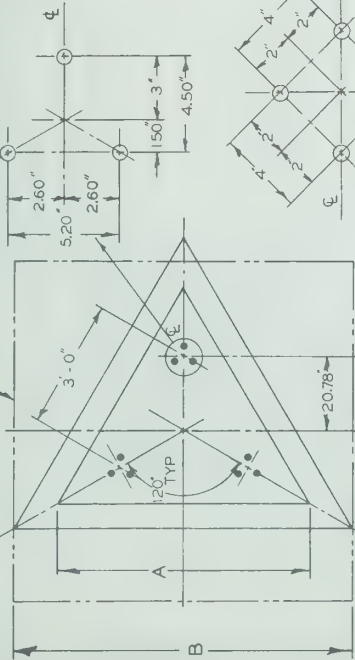
TOP MOUNTING

TOP MOUNTING-
(WITH BEACON)

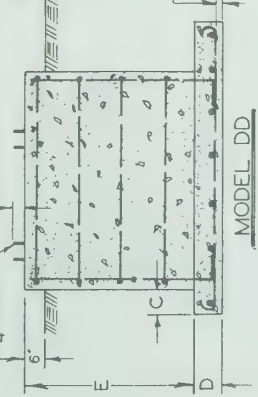
SIDE MOUNTING-
(AT ANY LEVEL)

ANTENNA MOUNTING DETAILS				DRAWING NO.	
				C-661 004	
				R2	
				ROHN MANUFACTURING	
				PEORIA, ILLINOIS	

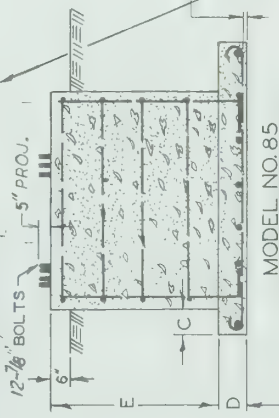
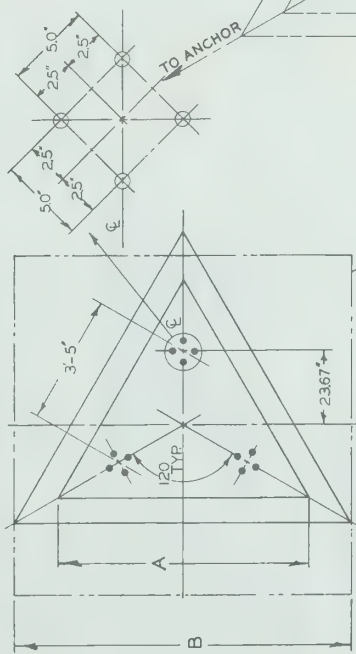
SQUARE CONCRETE FOOTING OPTIONAL
(ALLOW FOR ADDITIONAL CONCRETE)



NOTE: DRAIN HOLE
ALREADY INCLUDED IN BASE
FOOT. DRAIN HOLE, HOWEVER,
MUST BE KEPT FREE OF
OBSTRUCTIONS (SEE ONLY)



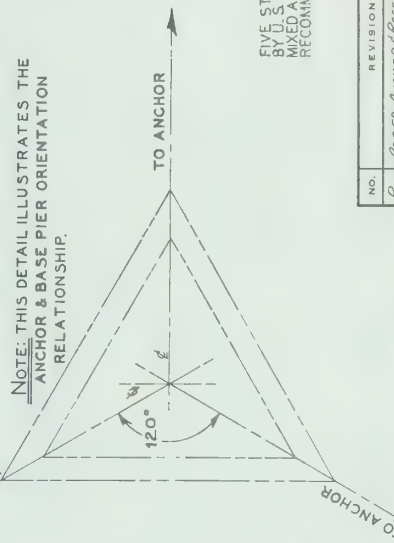
MODEL DD



MODEL NO. 85

SQUARE CONCRETE FOOTING OPTIONAL
(ALLOW FOR ADDITIONAL CONCRETE)

NOTE: THIS DETAIL ILLUSTRATES THE
ANCHOR & BASE PIER ORIENTATION
RELATIONSHIP.



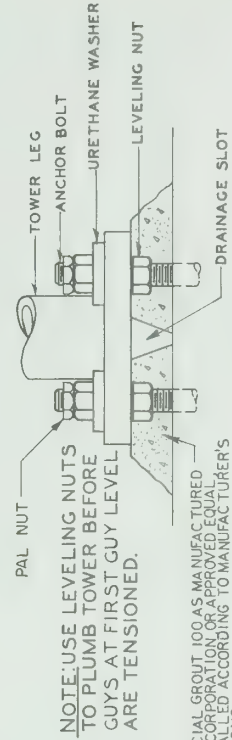
MODEL NO. 85

NOTE:

FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION
NOTES AND TOLERANCES SEE DRAWING NUMBER B841300.

CONCRETE BASE SCHEDULE

CBL NO.	DOWNWARD FORCE *F _T LBS	CONCRETE		DIMENSIONS				
		CU YDS	LBS	A	B	C	D	E
1	UP TO 53,660	2.32	8,740	6'-0"	6'-0"	0"	0"	4'-0"
2	53,660 TO 99,090	3.00	11,310	6'-0"	8'-0"	7'	8"	4'-0"
3	99,090 TO 156,890	4.32	16,310	6'-0"	10'-0"	14"	15"	4'-0"
4	156,890 TO 226,120	6.21	23,480	6'-0"	12'-0"	21'	21"	3'-9"
5	226,120 TO 302,180	9.67	36,620	6'-0"	14'-0"	28'	30"	3'-0"



NOTE: USE LEVELING NUTS
TO PLUMB TOWER BEFORE
GUYS AT FIRST GUY LEVEL
ARE TENSIONED.

FIVE STAR SPECIAL GROUT 100 AS MANUFACTURED
BY U.S. GROUT CORPORATION OR APPROVED EQUAL
MIXED AND INSTALLED ACCORDING TO MANUFACTURER'S
RECOMMENDATIONS.

REVISION		DRAWN PAUL EY		CUSTOMER		TITLE	
NO.	DATE	BY	DATE	CHECKED	08/2	CONCRETE BASE SCHEDULE	
R1	04/12/22/66	04/12/22/66	04/12/22/66	APPROVED	04/12/22/66		
R2	04/12/22/66	04/12/22/66	04/12/22/66	APPROVED	04/12/22/66		
R3	04/12/22/66	04/12/22/66	04/12/22/66	APPROVED	04/12/22/66		
R4	04/12/22/66	04/12/22/66	04/12/22/66	APPROVED	04/12/22/66		
R5	04/12/22/66	04/12/22/66	04/12/22/66	APPROVED	04/12/22/66		
SCALE NONE				ROHN MANUFACTURING PEORIA, ILLINOIS		DRAWING NO. C 641210R	

NOTE:

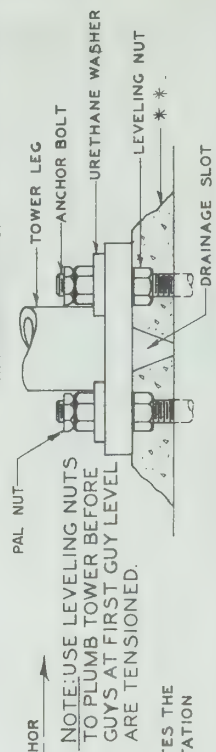
FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION NOTES AND TOLERANCES SEE DRAWING NUMBER B841300.

C 641208 R4

CONCRETE BASE SCHEDULE

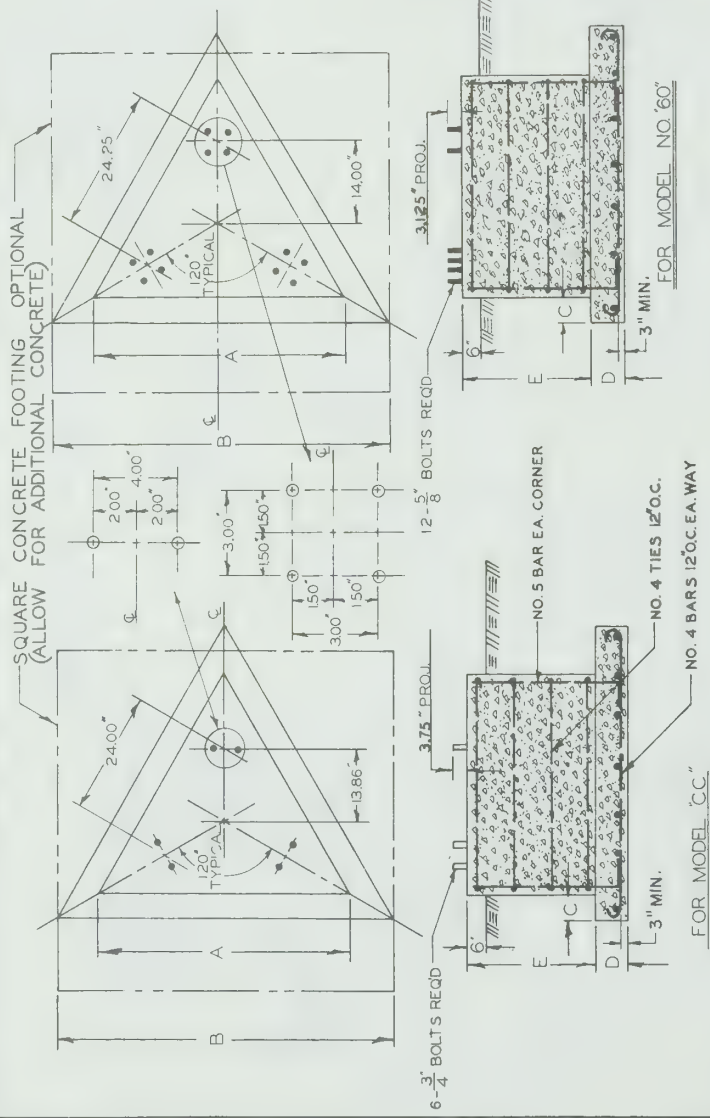
CBS NO.	DOWNWARD FORCE *F ₁ LBS.	CONCRETE		DOWNWARD FORCE *F ₂ LBS.	DIMENSIONS				
		CU. YDS.	LBS.		A	B	C	D	E
1	UP TO 24080	1.04	3920	UP TO 28000	4'-0"	4'-0"	0"	0"	4'-0"
2	24080 TO 57040	1.42	5360	28000 TO 62,400	4'-0"	6'-0"	7"	8"	4'-0"
3	57040 TO 101650	2.32	8750	62,400 TO 110,400	4'-0"	8'-0"	14"	15"	4'-0"
4	101650 TO 158920	3.79	14,280	110,400 TO 173,200	4'-0"	10'-0"	21"	21"	3'-0"
5	158920 TO 224,820	6.55	24,780	173,200 TO 249,600	4'-0"	12'-0"	28"	30"	3'-0"
6	224,820 TO 300,780	10.06	38,020	249,600 TO 338,400	4'-0"	14'-0"	35"	36"	2'-6"

** FIVE STAR SPECIAL GROUT, 100 AS MANUFACTURED BY U.S. GROUT CORPORATION OR APPROVED EQUAL, SHALL BE USED AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

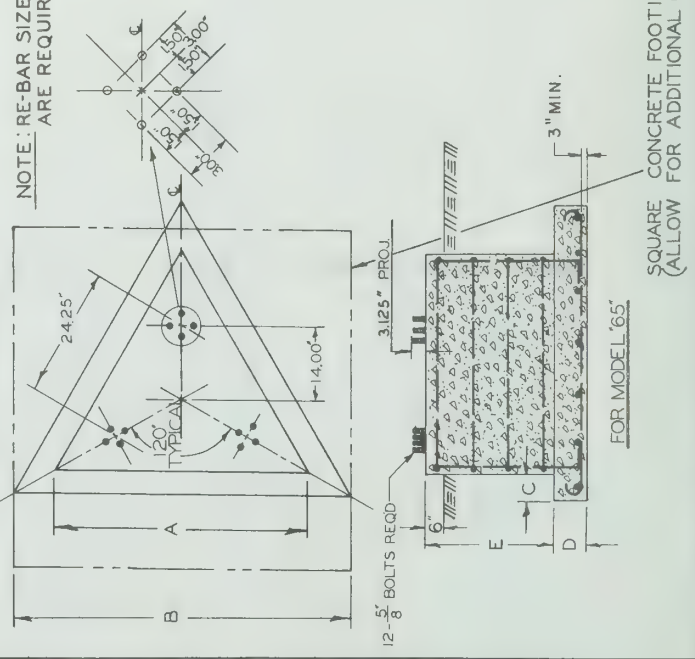


NOTE: THIS DETAIL ILLUSTRATES THE ANCHOR & BASE PIER ORIENTATION RELATIONSHIP.

NO.	REVISION	BY	DATE	DRAWN	CUSTOMER	TITLE
R1	Added Anchor Base Orientation	04/12/22	04/12/22	04/12/22	ROHN MANUFACTURING	CONCRETE BASE SCHEDULE
R2	Removed Detail R1, Added Grout Detail, Re-Drawn Bolt Detail	04/17/20	04/17/20	04/17/20	ROHN MANUFACTURING	CONCRETE BASE SCHEDULE
R3	Added Foundation Requirements	04/18/78	04/18/78	04/18/78	ROHN MANUFACTURING	CONCRETE BASE SCHEDULE
R4	Removed CC Drain Hole Note	04/18/78	04/18/78	04/18/78	ROHN MANUFACTURING	CONCRETE BASE SCHEDULE
R5	Revised f. Added B841300 Note	04/18/78	04/18/78	04/18/78	ROHN MANUFACTURING	CONCRETE BASE SCHEDULE
R6	Added Grout Note	04/18/78	04/18/78	04/18/78	ROHN MANUFACTURING	CONCRETE BASE SCHEDULE



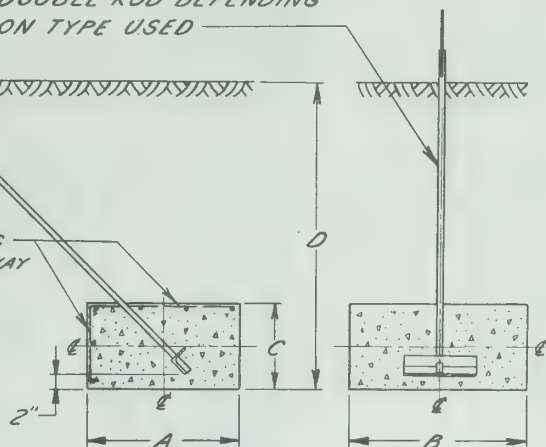
NOTE: RE-BAR SIZES SHOWN ABOVE ARE REQUIRED IN ALL BASES.



SQUARE CONCRETE FOOTING OPTIONAL (ALLOW FOR ADDITIONAL CONCRETE)

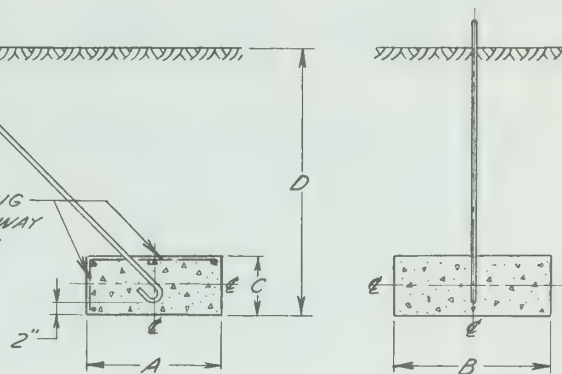
MAY BE SINGLE OR
DOUBLE ROD DEPENDING
ON TYPE USED

REINFORCING
BARS EACH WAY
BOTH FACES



ANCHOR DETAIL FOR GAC-34, 56, 57, & 58
SHOWN ON DWG. NO. C-660415R2

REINFORCING
BARS EACH WAY
BOTH FACES



ANCHOR DETAIL FOR GAC-25

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION
NOTES AND TOLERANCES SEE DRAWING NUMBER B841300.

GENERAL NOTES

1. MINIMUM $\frac{1}{2}$ " DIAMETER REINFORCING BARS IN ALL ANCHORS WITH
MAXIMUM SPACING OF 12" EXCEPT NO. 10 BLOCK MAXIMUM SPACING OF 6".


CONCRETE ANCHOR DATA

DEPTH, D (FT.)	ROD NO.	BLOCK NO.	ANCHOR DIMENSIONS (FT.)			WEIGHT CONCRETE (LBS.)	CONCRETE (CU. YDS.)	UPLIFT * CAPACITY (LBS.)	LATERAL CAPACITY (LBS.)
			A	B	C				
3	GAC-25	3a	1.5	1.5	1	310	.08	900	1,500
		3b	2	2	1	560	.15	1,320	2,000
		3c	2.5	2.5	1	870	.23	1,810	2,500
		3d	3	3	1	1,260	.33	2,535	3,000
		3e	3	4	1	1,680	.44	3,020	4,000
4	GAC-34	4a	3	3	1.5	1,890	.50	3,490	5,850
		4b	3	4	1.5	2,520	.67	4,360	7,800
		4c	3	5	1.5	3,150	.84	4,985	9,750
		4d	3	6	1.5	3,780	1.00	6,090	11,700
		4e	4	6	1.5	5,050	1.33	7,660	11,700
6	GAC-56	6a	3	4	1.5	2,520	.67	10,035	12,600
		6b	3	5	1.5	3,150	.84	11,600	15,750
		6c	3	6	1.5	3,780	1.00	13,150	18,900
		6d	4	6	1.5	5,050	1.33	15,850	18,900
8	GAC-57	8a	3	5	1.5	3,150	.84	22,150	21,750
		8b	3	6	1.5	3,780	1.00	24,700	26,100
		8c	4	6	1.5	5,050	1.33	28,500	26,100
		8d	6	6	2.0	10,800	2.67	33,380	33,600
10	GAC-58	10a	3	6	2.0	5,040	1.33	37,450	43,200
		10b	4	6	2.0	6,720	1.78	42,700	43,200
		10c	4	7	2.0	7,840	2.07	46,800	50,400
		10d	5	7	2.0	9,800	2.59	52,350	50,400
		10e	5	9	2.0	12,600	3.33	61,700	64,800

* INCLUDES SAFETY FACTOR OF 2

* * NORMAL SOIL IS A COHESIVE TYPE SOIL WITH A HORIZONTAL BEARING CAPACITY OF 400 POUNDS PER SQUARE FOOT PER LINEAL FOOT OF DEPTH. ROCK, NON-COHESIVE SOILS, OR SATURATED OR SUBMERGED SOILS ARE NOT TO BE CONSIDERED AS NORMAL.

R11	REVISED ANCHOR DETAIL DWG. NO.	8-18-77	RLH
R10	REMOVED RS-222-B FROM GEN. NOTE NO. 1.	3/7/77	GLS
R9	ADDED NOTE	7-6-76	OH
R8	REVISE DESIGN NOTE 1.	1-14-75	WBL
R7	REVISE DESIGN NOTE 1. & TITLE BLOCK	11-21-74	WBL
R6	GAC-25 WAS GA-25	12-7-73	JER
R5	REVISED FOR EIA RS-222-B	4/4/73	GLS
NO.	DESCRIPTION	DATE	BY

ROHN[®] MANUFACTURING	
DIVISION OF 	
TITLE STANDARD CONCRETE ANCHORS	
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.	
SCALE: NONE	MATERIAL: FINISH
OWN BY: GLS	DATE: 4/4/73
DESIGNED BY: WBL	DATE: 4-4-73
APPROVED BY: WBL	DATE: 4-4-73
APPROVED BY: WBL	DATE: 4-6-73
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES	
TOLERANCES: DEC. FRACTION ANGLES	
DWG. NO. C-620643 R	

R12 REV GEN NOTE & ADDED B841300 NOTE 1-9-85 RRB

REVISIONS

SEE NOTE #2

TYPE GAC-25-3 & GAC-25-5
GAC 303 & GAC 305

TYPE GAR-25 & GAR-30



TYPES - GAC-75, 100, 34, 56 & 57



TYPES - GAC-58 & 59



ANCHOR ROD DETAILS

- 8) SEE DRAWING NO. C 730323 FOR ANCHOR ROD FAB. DETAILS.
 7) USE EQUALIZER PLATES EP 57-WITH 1 1/8" SLOT-FOR GAC 100 SERIES ANCHORS.
 6) USE EQUALIZER PLATES EP 56-WITH 1 1/8" SLOT-FOR GAC 75 SERIES ANCHORS.
 5) TYPE-EJ EQUALIZER PLATES ARE USED WITH EYE & JAW TURNBUCKLES
 4) TYPE-EE EQUALIZER PLATES ARE SUPPLIED IN PAIRS FOR EYE & EYE TURNBUCKLES.
 3) PART NO. SUFFIXES-1,3,5,33 & 55 DENOTES-1,3 OR 5 HOLES IN PLATES.
 2) TYPE GAC 25 RODS ARE SUPPLIED WITH TYPE 2534-EE EQUALIZER PLATES (AS IS TYPE GAC30 ROD)
 1) SEE DRAWING NO. C-660416 FOR EQUALIZER PLATE DETAILS.

ANCHOR ROD DATA

PART NUMBER	EQUALIZER PLATE TYPE	DIMENSIONS IN INCHES							WEIGHT- LBS.	ALLOWABLE LOAD LBS.
		L	A	B	C	D	T			
GAR 25	EYE	64	1	—	2	5/8	—	8	5,500	
GAC 25 3	EE	64	2	—	—	5/8	3/8	12	5,500	
GAC 25 5	EE	64	2	—	—	5/8	3/8	13	5,500	
GAC 75 1	EJ	120	1 1/8	12	3	3/4	1/2	25	13,250	
GAC 75 3	EJ	120	2 1/2	12	3	3/4	1/2	30	13,250	
GAC 75 5	EJ	120	2 1/2	12	3	3/4	1/2	35	13,250	
GAC 100 1	EJ	120	1 5/8	12	4	1 1/8	3/4	55	23,550	
GAC 100 3	EJ	120	3	12	4	1 1/8	3/4	65	23,550	
GAC 100 5	EJ	120	3	12	4	1 1/8	3/4	75	23,550	
GAC 34 33	EJ	84	2	12	2 1/2	3/4	3/8	20	13,250	
GAC 56 33	EJ	120	2 1/2	12	3	1 1/4	1/2	60	36,800	
GAC 57 33	EJ	168	3	12	4	1 7/16	3/4	115	48,600	
GAC 58 33	EJ	192	4	12	6	1 1/4	1	200	73,600	
GAC 59 33	EJ	240	4	18 (3)	6	1 1/8	1	300	97,300	
GAC 34 55	EJ	84	2	12	2 1/2	3/4	3/8	25	13,250	
GAC 56 55	EJ	120	2 1/2	12	3	1 1/4	1/2	65	36,800	
GAC 57 55	EJ	168	3	12	4	1 7/16	3/4	125	48,600	
GAC 58 55	EJ	192	4	12	6	1 1/4	1	220	73,600	
GAC 59 55	EJ	240	4	18 (3)	6	1 7/8	1	310	97,300	
GAR 30	EYE	84	1	—	2	5/8	—	9	5500	
GAC 303	EE	84	2	—	—	5/8	3/16	13	5500	
GAC 305	EE	84	2	—	—	5/8	3/16	14	5,500	

SEE NOTE 6

SEE NOTE 7

R5	ADD PIN GAC 30, GAC 303 & GAC 305	92-ET	FHT
R4	ALLOWABLE LOAD WAS LOAD CAPACITY CHART	12-30-85	R&B
R3	REV. GAC 25 & GAC 25	2-16-85	R&B
R2	REV. DIMENSION WAS 12"	3-18-73	CLS
R1	REVISED #57 ROD D DIM & CAPACITY	8-11-73	TS
0	DELETE #40 ROD, REVISE CAP #25 ROD	1-15-75	2MBT
NO	DESCRIPTION	DATE	BY

REVISIONS

ROHN[®] MANUFACTURING
DIVISION OF

TITLE

ANCHOR ROD SCHEDULE

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TOLERANCES

ANGLES

DWG NO

C 660415

R5

ASSEMBLY BOLT INSTALLATION:

ALL TOWER ASSEMBLY BOLTS ARE TO BE INSERTED OUT AND/OR UP (I.E. WITH NUTS AND PAL NUTS ON OUTSIDE OF TOWER FACE AND/OR ON TOP OF FLANGE PLATES) UNLESS PROHIBITED BY LACK OF CLEARANCE.

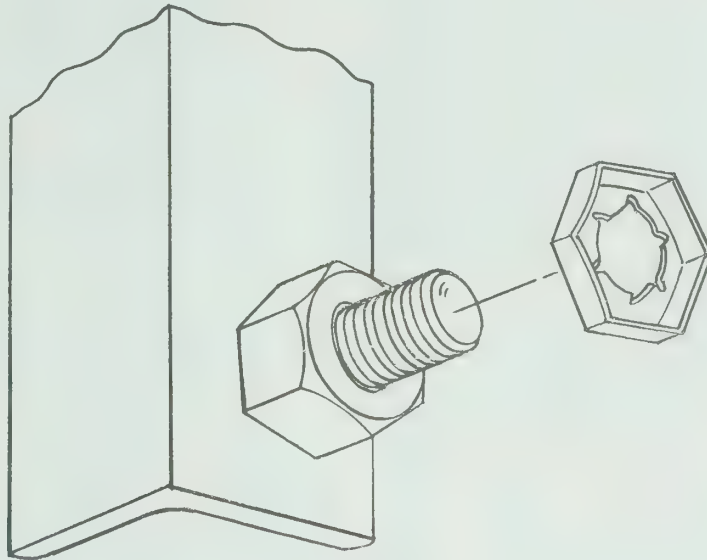
ALL ASSEMBLY AND ANCHOR BOLTS ARE TO BE TIGHTENED IN ACCORDANCE WITH ANSI/EIA-222-D SECTION 1.1.3.2 - (WHERE HIGH-STRENGTH BOLTS ARE USED FOR BEARING-TYPE CONNECTIONS, AS A MINIMUM, THE BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE AUGUST 14, 1980, AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS").

FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.

CAUTION: DO NOT OVER-TORQUE! GALVANIZING ON BOLTS, NUTS AND STEEL PARTS MAY ACT AS A LUBRICANT, THUS OVER-TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK OR SNAP OFF.

PAL NUT INSTALLATION:

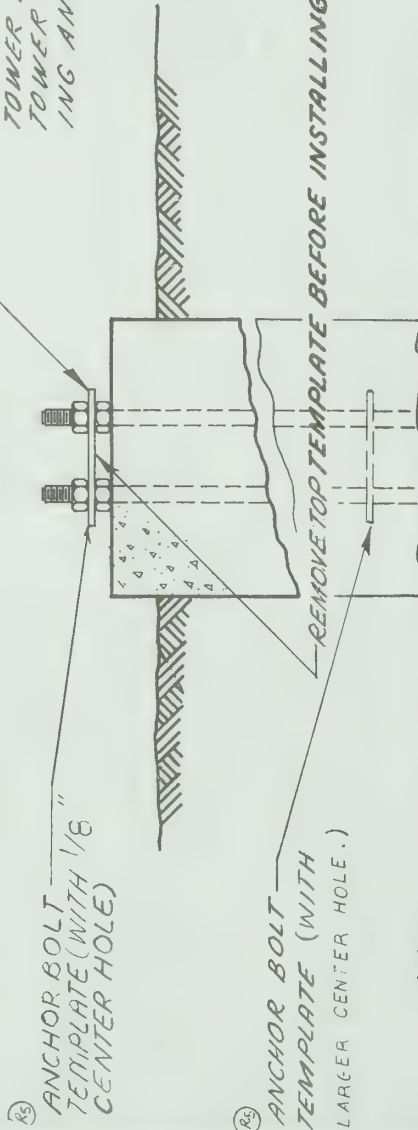
PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. (SEE PICTURE.) PAL NUTS NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.



R1	UPGRADE FOR EIA REV. D	12-29-87	FHT/JHD/J
No. ▲	Revision Description	▲ Date	▲ By
Unarco-Rohn Division of Unarco Industries, Inc.			
Title <i>BOLT ASSEMBLY INSTALLATION</i>			
Scale <i>NONE</i>		Unless otherwise specified, dimensions are given in inches	
Drawn by <i>C.H.</i> Date <i>7-5-79</i>		Decimals ±	Fractions ±
Checked by <i>LHB</i> Date <i>7-5-79</i>		Material	Angles ±
Approved by Engineering <i>TS</i> Date <i>7-5-79</i>		Finish	Weight
Approved by Production		This drawing is the property of Unarco-Rohn. It is not to be reproduced, copied or traced in whole or in part without our written consent.	
Approved by Sales <i>PAH</i> Date <i>7-10-79</i>		File Number	Drawing Number <i>A 790135</i> R1

ANCHOR BOLT SETTING TEMPLATE - (SEE ANCHOR BOLT LAYOUT OF EACH TOWER SITE FOR TEMPLATE PART NO.).
 (R₁) FOR 6" THRU 14" PIPE LEGS ONLY LOCATE TEMPLATE SUCH THAT SCRIBED LINE PASSING THRU CENTER HOLE & 2 CENTER PUNCH MARKS IS ON LINE TO TOWER AXIS. SEE ANCHOR BOLT LAYOUT OF EACH TOWER SITE FOR FURTHER INFORMATION CONCERNING ANCHOR BOLT ORIENTATION.

CHECK ANCHOR BOLT SIZE, NO., SPACING, & BOLT CIRCLE DIA. ON TEMPLATE AGAINST ANCHOR BOLT LAYOUT DRAWINGS BEFORE INSTALLATION.



NOTE: IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIFY THAT THE CORRECT ANCHOR BOLT TEMPLATE AND FOUNDATION DIMENSIONS SHOWN ON RESPECTIVE SITE DRAWINGS ARE BEING USED.

NO.	DESCRIPTION	DATE	BY
R ₁	REVISED AND ADDED NOTE AS MARKED	8/13/82	ZTC
R ₂	REVISED LEG SIZE	10/13/80	OH
R ₃	CORRECTED LEG SIZE	4/20/79	GLS
R ₄	ADD NOTE.	12/20/78	GLS

ROHN® MANUFACTURING
 DIVISION OF

TITLE
 ANCHOR BOLT TEMPLATE INSTALLATION

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SCALE	MATERIAL	FINISH	WT.
OWN. BY	DATE	DATE	DATE
CRD. BY	DATE	DATE	DATE
APPD. ENGR.	DATE	DATE	DATE
APPD. SALES	DATE	DATE	DATE
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	TOLEANCES	DEC.	FRAC.
DWG. NO.	ANGLES		

R₅ REVISED ANCHOR BOLT TEMPLATES 12-29-87 FHT/JHD

STANDARD FOUNDATION NOTES

1. FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/EIA-222-D "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", SECTION 7, FOR "NORMAL" SOIL CONDITIONS. "NORMAL" SOIL IS DEFINED AS DRY, COHESIVE SOIL WITH AN ALLOWABLE NET HORIZONTAL BEARING CAPACITY OF 4000 PSF (192 kPa), AND AN ALLOWABLE NET HORIZONTAL PRESSURE OF 400 PSF PER LINEAL FOOT OF DEPTH (62.8 kPa PER LINEAL METER OF DEPTH) TO A MAXIMUM OF 4000 PSF (192 kPa).
2. THE PURCHASER MUST VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED E.T.A. "NORMAL" SOIL PARAMETERS AND THAT THE DEPTH OF STANDARD FOUNDATIONS ARE ADEQUATE BASED ON THE FROST PENETRATION AND/OR ZONE OF SEASONAL MOISTURE VARIATION AT THE SITE. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT "NORMAL" SOIL PARAMETERS ARE NOT APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED.
3. FOUNDATION DESIGNS ASSUME FIELD INSPECTIONS WILL BE PERFORMED BY THE PURCHASER'S REPRESENTATIVE TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE SITE.
4. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
5. ANCHOR BOLTS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM A193 GR B7 AND A320 GR L7 AND SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH).
6. PAL NUTS OR ANCO NUTS SHALL BE INSTALLED ON ALL ANCHOR BOLTS.
7. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI (20.7 MPa) IN 28 DAYS.
8. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS INCLUDING FREEZING AND THAWING.
9. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR ONE-THIRD CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING.
10. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 INCLUDING SUPPLEMENTARY REQUIREMENTS S1.
11. REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE.
12. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
13. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 mm) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 mm) MINIMUM COVER ON REINFORCEMENT.
14. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76 mm) NOR BE LESS THAN 2 INCHES (51 mm).
15. SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
16. FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH (200 mm) MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT (16 kN/m³).
17. FOUNDATION DESIGNS ASSUME LEVEL GRADE AT TOWER SITE.

18. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
19. FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING AB10214.
20. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
21. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
22. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
23. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS OF PIER AND PAD FOUNDATIONS. FORMS FOR PIERS SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
24. CONSTRUCTION JOINTS AT BASES OF PIERS FOR PIER AND PAD FOUNDATIONS SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 mm). FOUNDATION DESIGNS ASSUME NO OTHER CONSTRUCTION JOINTS.
25. TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
26. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19 mm X 19 mm) MINIMUM.

R5	REVISED	11/19/87	CSR
No	Revision Description	Date	By
UNR-Rohn			
Title			
FOUNDATION MATERIAL SPECIFICATIONS, INSTALLATION NOTES AND TOLERANCES			
Scale	NONE		
Tolerances	Unless otherwise specified, dimensions are given in inches		
Decimals	±	Fractions	±
Angles	±	Material	Finish
Weight	±	Material	Weight
Checked by	Date		
Drawn by	Date		
CSR	6/17/87	11/6/88	
Approved by Engineering	Date		
XK	1/6/88		
Approved by Production	Date		
Approved by Sales	Date		
Drawing Number		B841300R5	
2-2-88			

FOUNDATION AND ANCHOR TOLERANCES

ALL TOWERS

1. CONCRETE DIMENSIONS - PLUS OR MINUS 1" (25 mm).
2. DEPTH OF FOUNDATION - PLUS 3" (76 mm) OR MINUS 0".
3. DRILLED FOUNDATIONS OUT OF PLUMB - 1.0 DEGREE.
4. REINFORCING STEEL PLACEMENT - PER A.C.I. 301.
5. PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" (3 mm).
6. VERTICAL EMBEDMENTS OUT OF PLUMB - 1/2 DEGREE.

SELF-SUPPORTING TOWERS

7. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES - PLUS OR MINUS 1/16" (2 mm) OR 1/16" (2 mm) PER 20 FT (6 m) OF FACE SPREAD.
8. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (51 mm).
9. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS - 1/2" (13 mm).
10. ANCHOR BOLT SPACING - PLUS OR MINUS 1/16" (2 mm).
11. ANCHOR BOLT CIRCLE ORIENTATION - PLUS OR MINUS 1/4 DEGREE.
12. ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" (2 mm).

GUYED TOWERS

13. GUY RADIUS - PLUS OR MINUS 3 PERCENT OF TOWER HEIGHT.
14. ANCHOR ELEVATION - 3 PERCENT OF TOWER HEIGHT ABOVE OR BELOW TOWER BASE.
15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS) - PLUS OR MINUS 0.1 DEGREES.
16. ANCHOR ROD SLOPE - PLUS OR MINUS 1.0 DEGREE.
17. GUY INITIAL TENSION - PLUS OR MINUS 10 PERCENT OF VALUE SPECIFIED ON TOWER ASSEMBLY DRAWING.

WARNING !!!

AFTER ANCHOR BOLTS ARE INSTALLED AND CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL ANCHOR BOLTS.

R3	REDRAWN & REVISED	CSR	9/24/87
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DRAWN BY: CSR		DATE: 6/19/87	
CHECKED BY: KIZ		DATE: 9-25-87	
APP'D. ENG: XK		DATE: 9-25-87	
APP'D. SALES: <i>ll</i>		DATE: 2-12-88	
DRAWING NUMBER: AB10214R3			
		UNR-ROHN	
		TITLE:	
		FOUNDATION AND ANCHOR TOLERANCES	

- 3/16 HS & EHS
- 1/4 HS & EHS
- 5/16 HS & EHS
- 3/8 HS & EHS
- 7/16 HS
- 7/16 EHS
- 1/2 HS & EHS
- 9/16 EHS
- 5/8 EHS
- 3/4 EHS

3 CABLE CLAMPS REQ'D. PER TURNBACK

4 CABLE CLAMPS REQ'D. PER TURNBACK

5 CABLE CLAMPS REQ'D. PER TURNBACK

SERVE FREE (DEAD) END OF GUY AT EACH CONNECTION.

CABLE CLAMPS - SPACE CABLE CLAMPS 6 TIMES CABLE DIA. APART. (U-BOLT SHALL BEAR ON DEAD END)

SAFETY WIRE

E 1/3 TURNBUCKLE

SINGLE EQUALIZER R

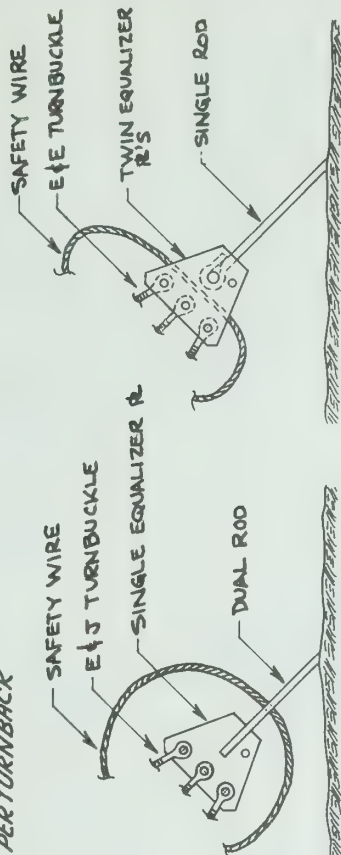
SINGLE ANCHOR ROD

CABLE CLAMPS

USE OVERSIZE THIMBLE WHEN USING PRE-FORMS

PREFORMED BIG GRIP (OPTIONAL METHOD OF ATTACHMENT)

BIG GRIP END SLEEVE REQ'D. ON ALL BIG GRIPS



NOTE: SEE DWG. NO. C-611211R3 FOR CABLE TENSIONING & TURNBUCKLE MAINTENANCE DETAILS.

R4	ADDED 3/4" EHS GUY WIRE	9-5-78	AM
R3	ADDED NOTE	7-6-76	DH
R2	ADDED NOTE	7-5-75	CV
R1	ADDED CABLE CLAMPS REQ'D PER GUY SIZE	12-18-74	DA
NO.	DESCRIPTION	DATE	BY

REVISIONS

R O H N

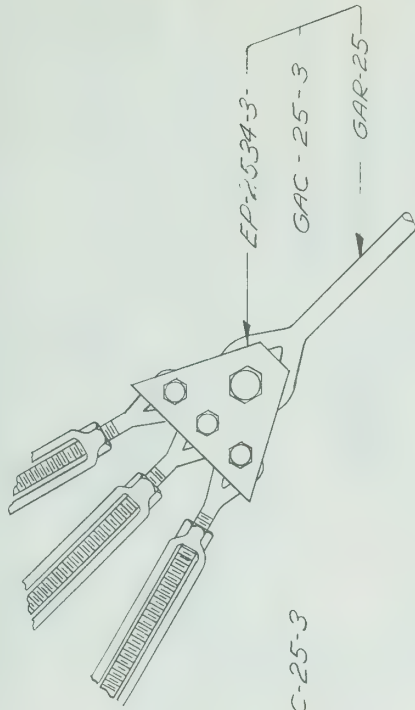
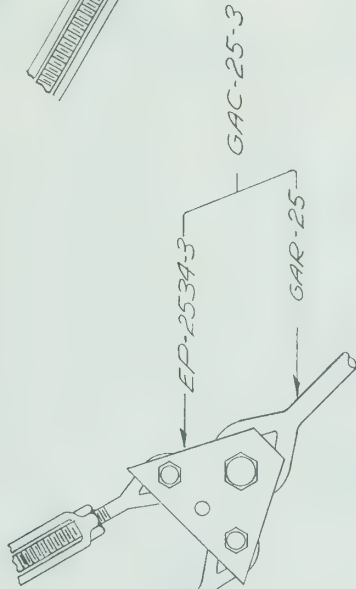
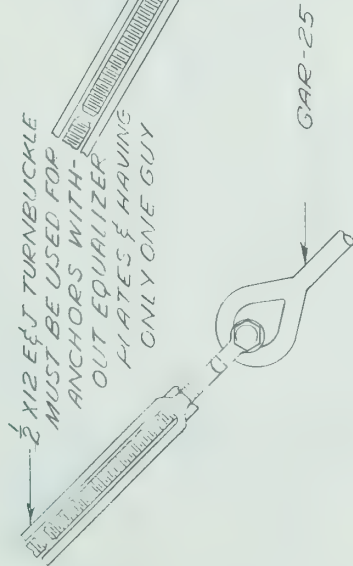
TITLE

TURNBUCKLE SAFETY METHODS

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SCALE	MATERIAL	FINISH	WT
NONE	DATE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	
A. JOHNSON	3-16-68	TOLERANCES	
DATE	4-4-68	DEC	±
APPRO	DATE	ANGLES	±
BR			
		DWG. NO.	B-680324
			R4

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.



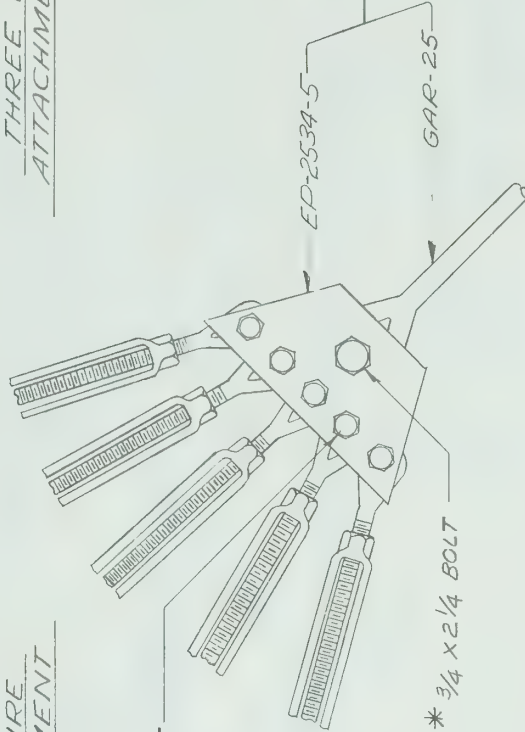
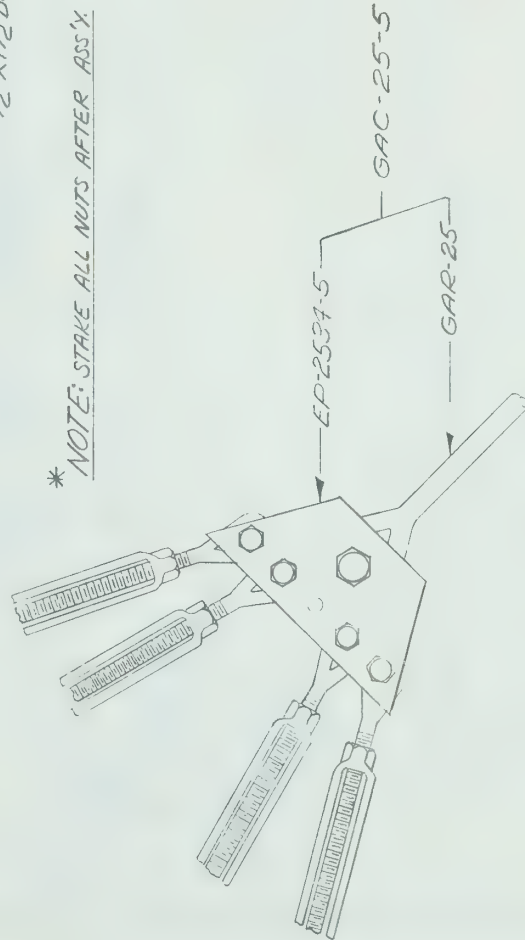
NO EQUALIZER PLATE REQUIRED FOR ONE GUY

TWO WIRE ATTACHMENT

THREE WIRE ATTACHMENT

* 1/2 X 1 1/2 BOLT

* NOTE: STAKE ALL NUTS AFTER ASS'Y.



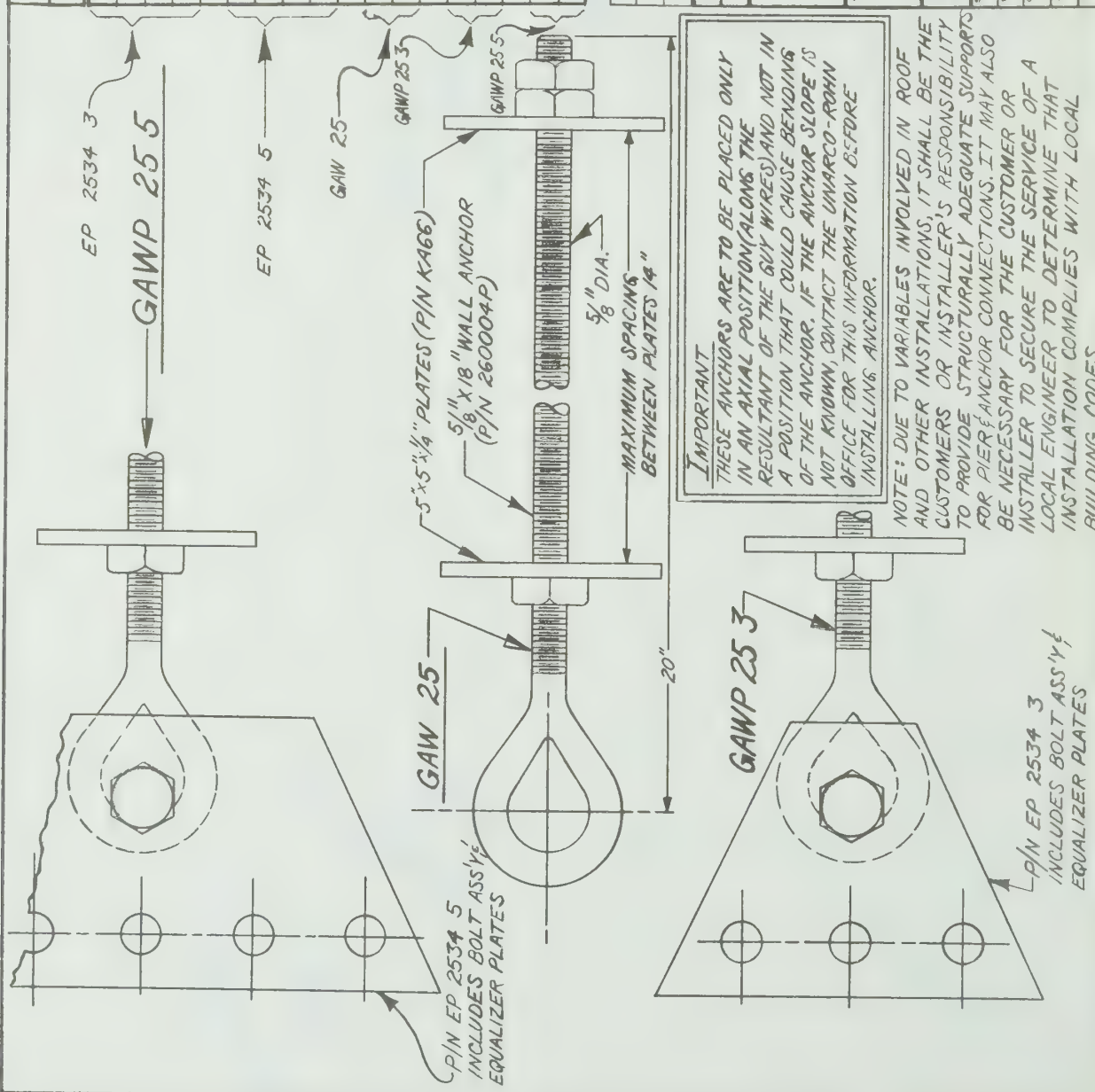
FIVE WIRE ATTACHMENT

FOUR WIRE ATTACHMENT

DRAWN O. HASCHKE	TITLE
CHECKED RAIL	ANCHOR ATTACHMENT
APPROVED ck	GAR - 25
DATE 6-6-64	GAC - 25-3
SCALE NONE	GAC - 25-5
	DRAWING NO.
	B-640525-R

ROHN
PEORIA, ILLINOIS

R2 ADD BOLT SIZES 9-14-76 WPL
R1 - 7-28-64 - OX.



IMPORTANT
 THESE ANCHORS ARE TO BE PLACED ONLY IN AN AXIAL POSITION (ALONG THE RESULTANT OF THE GUY WIRES) AND NOT IN A POSITION THAT COULD CAUSE BENDING OF THE ANCHOR. IF THE ANCHOR SLOPE IS NOT KNOWN, CONTACT THE UNARCO-ROHN OFFICE FOR THIS INFORMATION BEFORE INSTALLING ANCHOR.

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMERS OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

BILL OF MATERIAL			
QTY.	PART NO.	DESCRIPTION	DWG. NO.
2	EP25 3	3-HOLE EQUALIZER P'S.	C 6604/6R1
1	210048GA	3/4" X 2 1/4" BOLT ASS'Y	
3	210018GA	1/2" X 1 1/2" BOLT KIT ASS'Y	
1	720004	PLASTIC BAG 6" X 9"	
2	EP25 5	5-HOLE EQUALIZER P'S.	C 6604/6R1
1	210048GA	3/4" X 2 1/4" BOLT ASS'Y	
5	210018GA	1/2" X 1 1/2" " " " "	
1	720006	PLASTIC BAG 9" X 13"	
1	260004P	5/8" X 18" WALL ANCHOR	
2	K466	5" X 5" X 1/4" RETAINER P'S.	
1	EP 2534 3	EQUALIZER PLATE KIT	
1	GAW 25	WALL ANCHOR ASS'Y	
1	EP 2534 5	EQUALIZER PLATE KIT	
1	GAW 25	WALL ANCHOR ASS'Y	

R3	ADDED NOTE	10-15-80	BY
R2	ADDED BILLS OF MATERIAL	6-2-77	BY
R1	ADDED NOTE	7-6-76	BY
NO.	DESCRIPTION	DATE	BY

ROHN® MANUFACTURING
 DIVISION OF

WALL & ROOF ANCHOR

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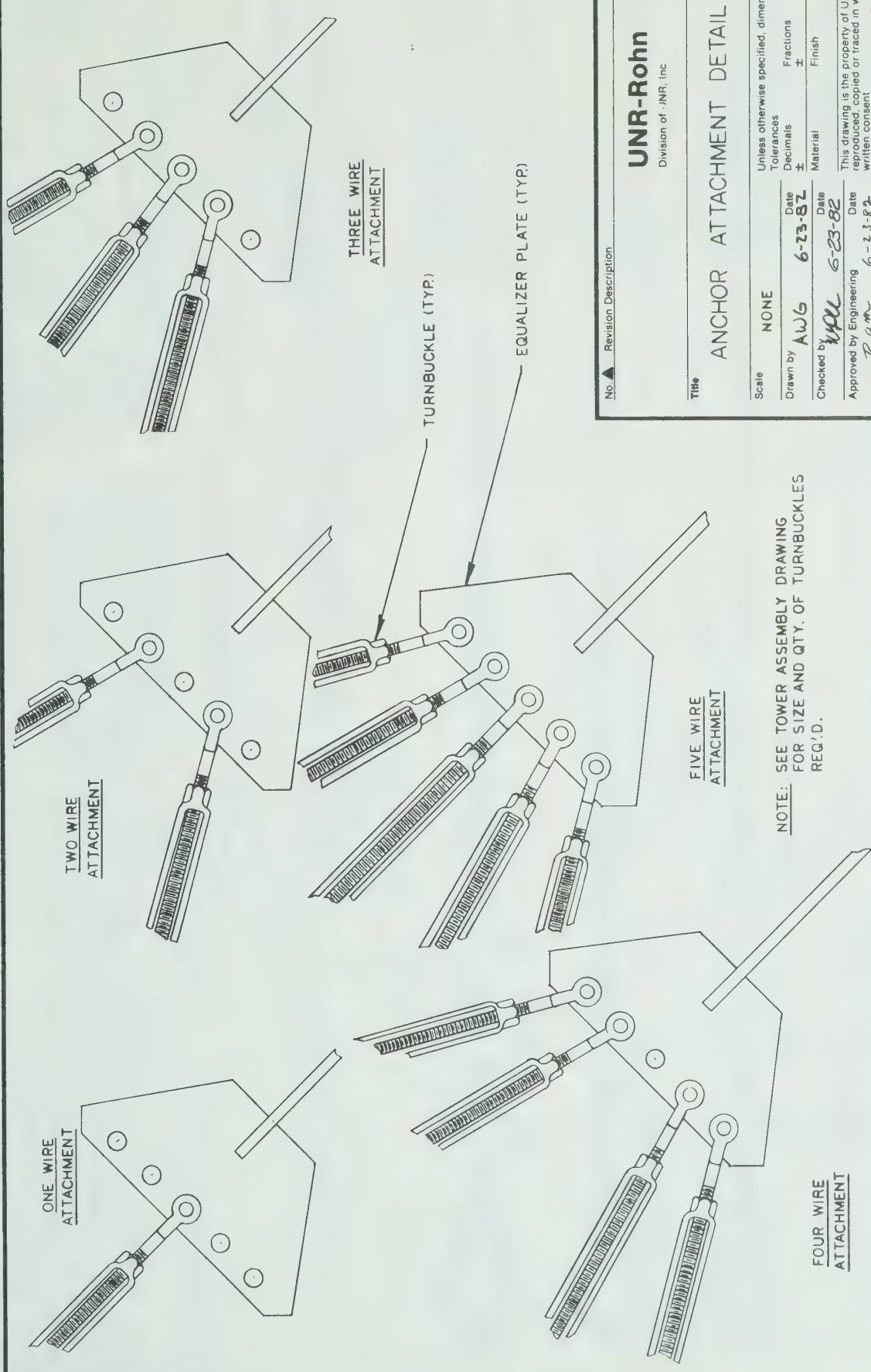
SCALE: ~ FINISH: ~

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.

OWN BY: J.H.D. DATE: 6-21-77 MATERIAL: ~ WT: ~

APPROVED BY: [Signature] DATE: 8-5-71 DEC: ~ TOLERANCES: ~ ANGLES: ~

DWG. NO. B 710804 R3



ONE WIRE
ATTACHMENT

TWO WIRE
ATTACHMENT

THREE WIRE
ATTACHMENT

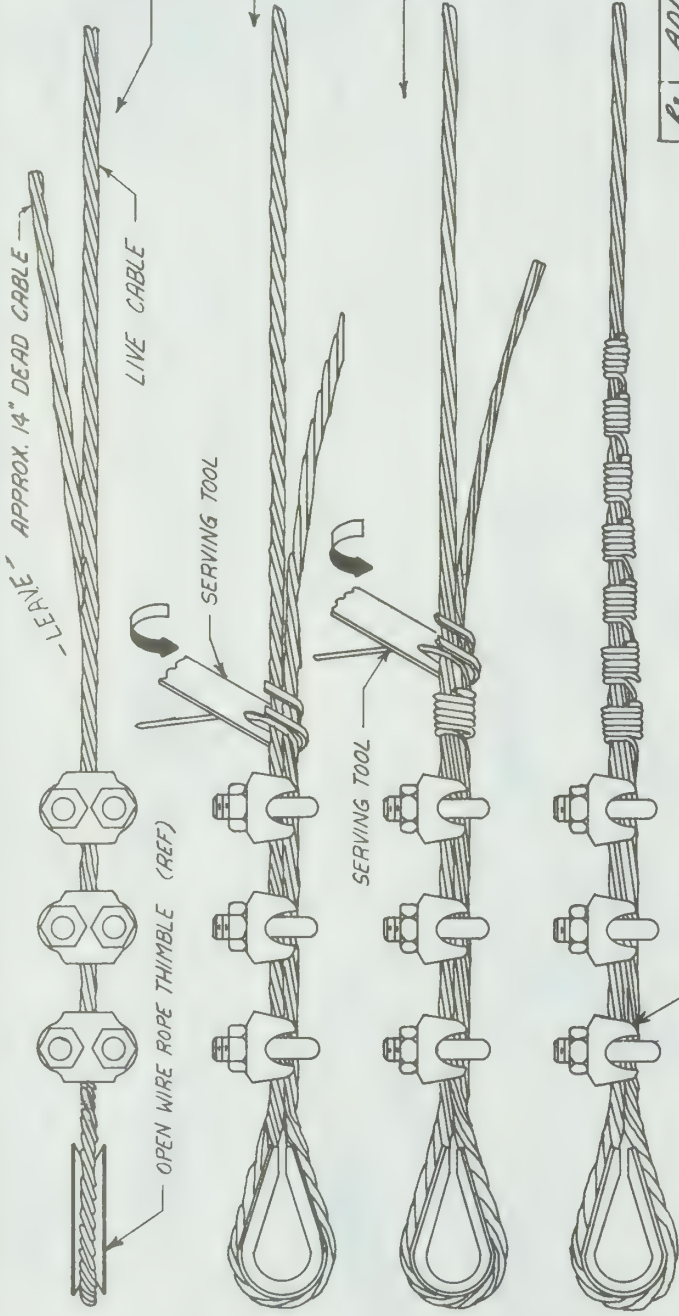
FIVE WIRE
ATTACHMENT

FOUR WIRE
ATTACHMENT

NOTE: SEE TOWER ASSEMBLY DRAWING
FOR SIZE AND QTY. OF TURNBUCKLES
REQ'D.

No. ▲	Revision Description	Date	By
<div style="text-align: center;"> UNR-Rohn Division of JNR, Inc. </div>			
<div style="text-align: center;"> ANCHOR ATTACHMENT DETAIL </div>			
Scale	NONE	Unless otherwise specified, dimensions are given in inches	
Drawn by	AJG	Date	6-23-82
Checked by	WPL	Date	6-23-82
Approved by Engineering	RAM	Date	6-23-82
Approved by Production		Date	
Approved by Sales	GR	Date	6-24-82
Drawing Number	B820511		

INSTRUCTIONS



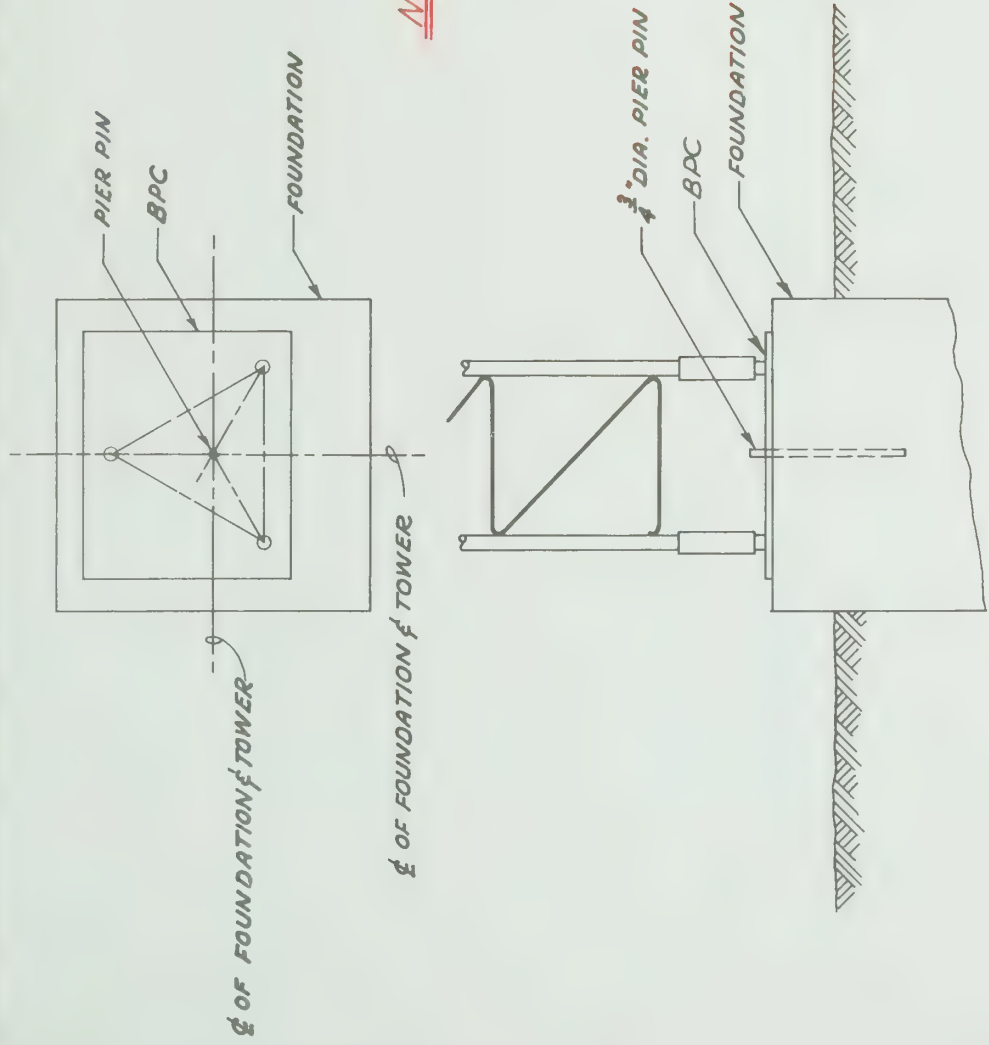
3 CABLE CLAMPS OR FIST GRIPS REQ'D. PER TURNBACK

4 CABLE CLAMPS OR FIST GRIPS REQ'D. PER TURNBACK

5 CABLE CLAMPS OR FIST GRIPS REQ'D. PER TURNBACK

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

R ₃	ADDED FIST GRIPS	9-25-79	RA
R ₂	ADDED NOTE	7-6-76	DA
R ₁	REDRAWN	1-3-75	WR
NO.	DESCRIPTION	DATE	BY
REVISIONS			
<div style="text-align: center;"> ROHN® MANUFACTURING DIVISION OF </div>			
TITLE CLIPPED AND SERVED GUY CABLE CONNECTION INSTRUCTIONS			
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SCALE	MATERIAL	FINISH	WT.
DWN. BY WR	DATE 1-3-75	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	
CHKD. BY DA	DATE 1-7-75	DWG. NO. B-690712	
AP'D. ENGR. GW	DATE 1-7-75	TOLERANCES DEC. 2 2 2 2	
AP'D. ALR	DATE 1-7-75	FILE NO.	



NOTE: TOWER IS NOT TO STAND UNGUYED IN ANY CASE.
TOWER MUST BE TEMPORARILY OR PERMANENTLY
GUYED AT ALL TIMES.

SPECIFICATION CHANGE

NO.	DESCRIPTION	DATE	BY
REVISIONS			
R O H N			
TITLE			
REVISED BPC-INSTALLATION DETAILS			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
SCALE	MATERIAL	FINISH	WT
DWN BY: <u>DAH</u>	DATE: <u>6-4-68</u>	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	
CHECKED: <u>WJC</u>	DATE: <u>6-4-68</u>	TOLERANCES	
APPROVED: <u>DAH</u>	DATE: <u>6-4-68</u>	DEC	FRACTION
		±	±
DWG NO.			FILE NO.
<u>B-680606</u>			

CROSS REFERENCE SHEET

SSV TOWER

<u>OLD LEG NO.</u>	<u>NEW LEG NO.</u>	<u>OLD LEG NO.</u>	<u>NEW LEG NO.</u>
4N	VL345	9NHST	VL369
4NST	VL337	9NHST w/step	VL369S
4NC	VL338	10N	VL350
4NB	VL339	10N w/step	VL359S
4NA	VL340	10NST	VL370
5N	VL346	10NST w/step	VL370S
5NST	VL341	10NH	VL351
5NC	VL342	10NH w/step	VL351S
5NB	VL343	10NHST	VL371
5NA	VL344	10NHST w/step	VL371S
6N	VL347	11N	VL352
6N w/step	VL347S	11N w/step	VL352S
6NST	VL365	11NST	VL372
6NST w/step	VL365S	11NST w/step	VL372S
7N	VL348	12N	VL360
7N w/step	VL348S	12NST	VL373
7NST	VL366	12NH	VL353
7NST w/step	VL366S	12NHST	VL374
8N	VL349	13N	VL361
8N w/step	VL349S	13NH	VL354
8NST	VL367	14N	VL362
8NST w/step	VL367S	14NH	VL355
9N	VL358	15N	VL363
9N w/step	VL358S	15NH	VL356
9NST	VL368	16N	VL363
9NST w/step	VL368S	16NH	VL356
9NH	VL350		
9NH w/step	VL350S		

CROSS REFERENCE SHEET
#80 TOWER

NEW SECTION PART NO.	OLD SECTION PART NO.	NEW LEG NO.	OLD LEG NO.	WT.	NEW SECTION PART NO.	OLD SECTION PART NO.	NEW LEG NO.	OLD LEG NO.	WT.
83P	83P	KL56	83P	420	83PX	83PX	KL58	83PX	560
83PS	83P w/steps	KL56	83P	425	83PXS	83PX w/steps	KL58	83PX	565
		KL56S					KL58S		
83PA	83P - 5' lg.	KL98	83P	165	83PXA	83PX - 5' lg.	KL100	83PX	192
83PAS	83P - 5' lg. w/steps	KL98	83P	167	83PXAS	83PX - 5' lg. w/steps	KL100	83PX	194
		KL98S					KL100S		
83PB	83P - 10' lg.	KL126	83P	249	83PXB	83PX - 10' lg.	KL128	83PX	309
83PBS	83P - 10' lg. w/steps	KL126	83P	252	83PXBs	83PX - 10' lg. w/steps	KL128	83PX	312
		KL126S					KL128S		
83PC	83P - 15' lg.	KL154	83P	336	83PXC	83PX - 15' lg.	KL156	83PX	426
83PCS	83P - 15' lg. w/steps	KL154	83P	341	83PXCs	83PX - 15' lg. w/steps	KL156	83PX	431
		KL154S					KL156S		
83PH	83PH	KL57	83PH	510	83PHX	83PHX	KL59	83PHX	650
83PHS	83PH w/steps	KL57	83PH	515	83PHXS	83PHX w/steps	KL59	83PHX	655
		KL57S					KL59S		
83PHA	83PH - 5' lg.	KL99	83PH	189	83PHXA	83PHX - 5' lg.	KL101	83PHX	216
83PHAS	83PH - 5' lg. w/steps	KL99	83PH	191	83PHXAS	83PHX - 5' lg. w/steps	KL101	83PHX	218
		KL99S					KL101S		
83PHB	83PH - 10' lg.	KL127	83PH	294	83PHXB	83PHX - 10' lg.	KL129	83PHX	354
83PHBS	83PH - 10' lg. w/steps	KL127	83PH	297	83PHXBs	83PHX - 10' lg. w/steps	KL129	83PHX	357
		KL127S					KL129S		
83PHC	83PH - 15' lg.	KL155	83PH	402	83PHXC	83PHX - 15' lg.	KL157	83PHX	492
83PHCS	83PH - 15' lg. w/steps	KL155	83PH	407	83PHXCS	83PHX - 15' lg. w/steps	KL157	83PHX	497
		KL155S					KL157S		
84	84	KL60	84	570	84X	84X	KL62	84X	700
84S	84 w/steps	KL60	84	575	84XS	84X w/steps	KL62	84X	705
		KL60S					KL62S		
84A	84 - 5' lg.	KL102	84	201	84XA	84X - 5' lg.	KL104	84X	228
84AS	84 - 5' lg. w/steps	KL102	84	203	84XAS	84X - 5' lg. w/steps	KL104	84X	230
		KL102S					KL104S		
84B	84 - 10' lg.	KL130	84	318	84XB	84X - 10' lg.	KL132	84X	375
84BS	84 - 10' lg. w/steps	KL130	84	322	84XBs	84X - 10' lg. w/steps	KL132	84X	378
		KL130S					KL132S		
84C	84 - 15' lg.	KL158	84	438	84XC	84X - 15' lg.	KL160	84X	525
84CS	84 - 15' lg. w/steps	KL158	84	443	84XCS	84X - 15' lg. w/steps	KL160	84X	530
		KL158S					KL160S		
84H	84H	KL61	84H	680	84HX	84HX	KL63	84HX	800
84HS	84H w/steps	KL61	84H	685	84HXS	84HX w/steps	KL63	84HX	805
		KL61S					KL63S		
84HA	84H - 5' lg.	KL103	84H	228	84HXA	84HX - 5' lg.	KL105	84HX	261
84HAS	84H - 5' lg. w/steps	KL103	84H	230	84HXAS	84HX - 5' lg. w/steps	KL105	84HX	263
		KL103S					KL105S		
84HB	84H - 10' lg.	KL131	84H	381	84HXB	84HX - 10' lg.	KL133	84HX	438
84HBS	84H - 10' lg. w/steps	KL131	84H	384	84HXBs	84HX - 10' lg. w/steps	KL133	84HX	441
		KL131S					KL133S		
84HC	84H - 15' lg.	KL159	84H	528	84HXC	84HX - 15' lg.	KL161	84HX	615
84HCS	84H - 15' lg. w/steps	KL159	84H	533	84HXCS	84HX - 15' lg. w/steps	KL161	84HX	620
		KL159S					KL161S		
85	85	KL64	85	650	85X	85X	KL66	85X	790
85S	85 w/steps	KL64	85	655	85XS	85X w/steps	KL66	85X	795
		KL64S					KL66S		
85A	85 - 5' lg.	KL106	85	255	85XA	85X - 5' lg.	KL108	85X	282
85AS	85 - 5' lg. w/steps	KL106	85	257	85XAS	85X - 5' lg. w/steps	KL108	85X	284
		KL106S					KL108S		
85B	85 - 10' lg.	KL134	85	402	85XB	85X - 10' lg.	KL136	85X	459
85BS	85 - 10' lg. w/steps	KL134	85	405	85XBs	85X - 10' lg. w/steps	KL136	85X	462
		KL134S					KL136S		
85C	85 - 15' lg.	KL162	85	546	85XC	85X - 15' lg.	KL164	85X	633
85CS	85 - 15' lg. w/steps	KL162	85	551	85XCS	85X - 15' lg. w/steps	KL164	85X	638
		KL162S					KL164S		
85H	85H	KL65	85H	810	85HX	85HX	KL67	85HX	950
85HS	85H w/steps	KL65	85H	815	85HXS	85HX w/steps	KL67	85HX	955
		KL65S					KL67S		
85HA	85H - 5' lg.	KL107	85H	303	85HXA	85HX - 5' lg.	KL109	85HX	330
85HAS	85H - 5' lg. w/steps	KL107	85H	305	85HXAS	85HX - 5' lg. w/steps	KL109	85HX	332
		KL107S					KL109S		
85HB	85H - 10' lg.	KL135	85H	489	85HXB	85HX - 10' lg.	KL137	85HX	546
85HBS	85H - 10' lg. w/steps	KL135	85H	492	85HXBs	85HX - 10' lg. w/steps	KL137	85HX	549
		KL135S					KL137S		
85HC	85H - 15' lg.	KL163	85H	675	85HXC	85HX - 15' lg.	KL165	85HX	762
85HCS	85H - 15' lg. w/steps	KL163	85H	680	85HXCS	85HX - 15' lg. w/steps	KL165	85HX	767
		KL163S					KL165S		
845H	845H	KL68	845H	695	845HX	845HX	KL69	845HX	805
845HS	845H w/steps	KL68	845H	700	845HXS	845HX w/steps	KL69	845HX	810
		KL68S					KL69S		

ROHN
SPECIAL SERVICES AVAILABLE

Site Inspections or Supervision (Domestic)	\$400.00 Per Man Day Plus Travel Expenses
Site Supervision (International)	\$800.00 Per Man Day Plus All Expenses **
Special Concrete Foundation Design Drawings and Calculations (Soil Analysis by Others) (Anchor Blocks, Base Piers, Pier & Pad, Drill & Bell, Mat, Rock)	\$400.00 Per Analysis Plus \$150.00 Per Man Hour (\$500.00 Minimum)
Special Concrete & Piling Foundation Design Drawings and Calculations (Soil Analysis by Others) (Piling, Stub Anchors, Special Piers, Etc.)	\$500.00 Per Analysis Plus \$150.00 Per Man Hour (\$750.00 Minimum)
Complete Detailed Analysis of Standard Catalog Towers with Back-Up Sheets (Projected Area, Brace & Leg Capacity, Misc. Details)	\$400.00 Per Analysis
Complete Detailed Analysis Non-Catalog Towers	\$2,000.00 Per Tower
Erection and Assembly Drawings	No Charge After Receipt of Purchase Order (4 Sets Maximum - \$50.00 Each Additional Set)
Sealed Design Drawings (except AK, HI, NV) (AK, HI, NV)	\$ 250.00 Per Tower 500.00 Per Tower
Sealed Catalog Drawings (except IL, AK, HI, NV) (AK, HI, NV) (IL)	\$ 250.00 Per Tower 500.00 Per Tower No Charge
Shop Drawings (Fabrication Drawings)	Not Supplied

Contact Rohn Sales Personnel for engineering fees prior to issuance of purchase order.

**Maximum of 8 weeks at one time on site and/or in transit from the U.S. Then 2 weeks leave time at same rates including travel expenses to and from U.S. (i.e. for every 8 weeks work outside U.S., charges will be made for 10 weeks, plus all expenses).

If outside source inspection, assembly, etc. is required prior to shipment of an order, \$50.00 per man hour (plus equipment time, if applicable) is chargeable, with \$300.00 as a minimum.

- NOTES:
- 1) Amounts noted above are net prices.
 - 2) Terms - CIA or immediate invoice upon receipt of purchase order.
 - 3) Prices on engineering pertain to Rohn towers only.
 - 4) A man day (8 hours) begins when UNR-Rohn personnel leave factory (Peoria) and ends upon return.
 - 5) Other engineering services and studies available at \$150.00 per man hour plus a \$400.00 computer charge.
 - 6) Subject to change without notice.



ANSI/EIA-222-D-1986
APPROVED: OCTOBER 29, 1986

NOT EFFECTIVE UNTIL JUNE 1, 1987

EIA STANDARD

STRUCTURAL STANDARDS FOR
STEEL ANTENNA TOWERS AND
ANTENNA SUPPORTING STRUCTURES

EIA-222-D

(Revision of EIA-222-C)

NOVEMBER 1986



Engineering Department

ELECTRONIC INDUSTRIES ASSOCIATION

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This EIA Recommended Standard is considered to have international standardization implications, but the IEC activity has not progressed to the point where a valid comparison between the EIA Recommended Standard and the IEC Recommendation can be made.

Published by

ELECTRONIC INDUSTRIES ASSOCIATION
Engineering Department
2001 Eye Street, N.W.
Washington, D.C. 20006

STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND
ANTENNA SUPPORTING STRUCTURES

(From EIA Standard EIA-222-C and Standards Proposal No. 1658, formulated under cognizance of EIA Subcommittee TR-14.7.)

OBJECTIVE

The objective of these standards is to provide minimum criteria for specifying and designing Steel Antenna Towers and Antenna Supporting Structures. These standards are not intended to replace or supersede applicable codes. The information contained in these standards was obtained from information and data as referenced and noted herein and represents in the judgement of the subcommittee the accepted industry practices for minimum standards for the design of Steel Antenna Supporting Structures. It is for general information only. While it is believed to be accurate, this information should not be relied upon for any specific application without competent professional examination and verification of its accuracy, suitability and applicability by a licensed professional engineer. These standards utilize wind loading criteria based on an annual probability and are not intended to cover all environmental conditions which could exist at a particular location.

These standards shall apply to Steel Antenna Towers and Antenna Supporting Structures for all classes of communications service. These include AM, CATV, FM, Microwave, TV, and VHF.

SCOPE

These standards describe the requirements for Steel Antenna towers and Antenna Supporting Structures.

STRUCTURAL STANDARDS CONSIST OF . . .

- | | | |
|---|--|---|
| 1. <u>MATERIAL</u> | 7. <u>FOUNDATION AND ANCHORS</u> | 10.2 Standard |
| 1.1 Standard | 7.1 Definitions | 10.3 Method of Measurement |
| 2. <u>LOADING</u> | 7.2 Standard Foundations and Anchors | 11. <u>OPERATIONAL REQUIREMENTS</u> |
| 2.1 Definitions | 7.3 Non-Standard Foundations and Anchors | 11.1 Definitions |
| 2.2 Nomenclature | 7.4 Foundation Drawings | 11.2 Standard |
| 2.3 Standard | | 12. <u>PROTECTIVE GROUNDING</u> |
| 2.4 References | | 12.1 Definitions |
| 3. <u>STRESSES</u> | 8. <u>SAFETY FACTOR OF GUYS</u> | 12.2 Standard |
| 3.1 Standard | 8.1 Definition | 13. <u>CLIMBING AND WORKING FACILITIES</u> |
| 4. <u>MANUFACTURE AND WORKMANSHIP</u> | 8.2 Standard | 13.1 Definitions |
| 4.1 Standard | 9. <u>PRESTRESSING AND PROOF</u> | 13.2 Standard |
| 5. <u>FACTORY FINISH</u> | <u>LOADING OF GUYS</u> | 14. <u>MAINTENANCE AND INSPECTION</u> |
| 5.1 Standard | 9.1 Definitions | 14.1 Standard |
| 6. <u>PLANS, ASSEMBLY TOLERANCES, AND MARKING</u> | 9.2 Standard | 15. <u>ANALYSIS OF EXISTING TOWERS AND STRUCTURES</u> |
| 6.1 Standard | 10. <u>INITIAL GUY TENSION</u> | 15.1 Standard |
| | 10.1 Definition | |

APPENDICES

- A. Purchaser Checklist
- B. Design Wind Load on Typical Solid Microwave Antennas/Reflectors
- C. Allowable Twist & Sway Values for Parabolic Antennas, Passive Repeaters, and Periscope System Reflectors
- D. Allowable Twist & Sway Values for Dual Polarized Antennas or Single Polarized Antennas Expandable to Dual Polarization
- E. Tower Maintenance and Inspection Procedures
- F. Criteria for the Analysis of Existing Structures
- G. SI Conversion Factors

The above mentioned Structural Standards for Steel Antenna Towers and Antenna Supporting Structures are available direct from the Electronic Industries Association for \$18.00. These Standards are also available from Rohn, P. O. Box 2000, Peoria, IL 61656. The cost is \$18.00, postage paid.

TOWER DESIGN INFORMATION

Rohn communication tower designs conform to E.I.A. RS-222-C. Tower design may or may not conform to local, state, or federal requirements.

Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. UNR-Rohn assumes competent and qualified personnel will erect the tower.

For determining antenna torques and member sizes for microwave towers, UNR-Rohn requires tower layout and dish azimuths (site plan). For bidding purposes, if this information is not supplied, UNR-Rohn will design the tower members based on assumed values of antenna torque. When dish azimuths are specified without a tower orientation, the following tower orientation will be assumed:

- (a) For triangular guyed or self-supporting towers, UNR-Rohn will assume one leg or anchor pointing north and one face parallel to an east-west line.
- (b) For square towers, UNR-Rohn assumes faces parallel to east-west and north-south line.

Tower member sizes may change if final tower layout and dish azimuths (site plan) indicate antenna torques different from those assumed. Upon receipt of final tower layout and dish azimuths (site plan), UNR-Rohn will not perform re-engineering of the tower or change material unless specifically requested and paid for by the customer.

COMMENTARY OF E.I.A. RS-222-C INTERPRETATION

Section 6.1.1 - Foundation and Anchor Tolerances

UNR-Rohn does not include tolerances on foundation and anchor drawings because certain field conditions may require a deviation from specified tolerances. There are situations where tolerances may require a higher or lower value than those listed on the drawing. A certain amount of judgment must be left with the personnel supervising the construction. All construction is expected to be performed in a good workmanlike manner utilizing the most current and available methods and equipment.

Some general guidelines for allowable variances of the dimensions shown on the drawings are listed below which, in most cases, are satisfactory.

- 1. Concrete dimensions - plus or minus 1"
- 2. Depth of foundation - plus 3" or minus 0"
- 3. Reinforcing steel placement - plus or minus 1/4"
- 4. Anchor bolt circle diameter - plus or minus 1/32"
- 5. Anchor bolt circle orientation - plus or minus .25 degree
- 6. Face spread dimension (center to center of anchor bolt circle) - plus or minus 1/16"
- 7. Guy radius - 3 per cent of tower height
- 8. Anchor elevation - 3 per cent of tower height above or below tower base
- 9. Anchor alignment (perpendicular to guy radius) - plus or minus .1 degree
- 10. Anchor rod slope - plus or minus 1 degree
- 11. Guy initial tension - plus or minus 10 per cent of the value specified on the tower assembly drawing.

Section 10.2 - Guy Initial Tension

Initial tension values specified on the tower assembly drawings are based on a temperature of 60 degrees Fahrenheit and a wind velocity of less than 10 miles per hour. Corrections for the initial tension values at the various temperatures and guy slopes can be interpolated from the chart below. Tower length changes due to changes in guy stresses and sag stresses have been neglected.

Guy Size	Temperature ° F	Guy Level Elevation on Tower Ratio of Distance from Tower Base to Guy Anchor					
		.36	.58	.84	1.00	1.19	1.73
1/4EHS	120	415	445	495	525	545	585
	90	540	555	580	595	605	625
	60	665	665	665	665	665	665
	30	790	775	750	735	725	705
	0	915	885	835	805	785	745
5/16EHS	120	690	760	840	880	920	1000
	90	905	940	980	1000	1020	1060
	60	1120	1120	1120	1120	1120	1120
	30	1335	1300	1260	1240	1220	1180
	0	1550	1480	1400	1360	1320	1240

Commentary of E.I.A. RS-222-C Interpretation Cont'd.

Guy Size	Temperature ° F	Guy Level Elevation on Tower					
		Ratio of Distance from Tower Base to Guy Anchor					
		.36	.58	.84	1.00	1.19	1.73
3/8EHS	120	980	1050	1160	1210	1270	1380
	90	1260	1295	1350	1375	1405	1460
	60	1540	1540	1540	1540	1540	1540
	30	1820	1785	1730	1705	1675	1620
	0	2100	2030	1920	1870	1810	1700
7/16EHS	120	1240	1360	1510	1600	1690	1840
	90	1660	1720	1795	1840	1885	1960
	60	2080	2080	2080	2080	2080	2080
	30	2500	2440	2365	2320	2275	2200
	0	2920	2800	2650	2560	2470	2320
1/2EHS	120	1600	1760	1960	2070	2180	2380
	90	2145	2225	2325	2380	2435	2535
	60	2690	2690	2690	2690	2690	2690
	30	3235	3155	3055	3000	2945	2845
	0	3780	3620	3420	3310	3200	3000
9/16EHS	120	2100	2310	2570	2700	2840	3100
	90	2800	2920	3030	3100	3170	3300
	60	3500	3500	3500	3500	3500	3500
	30	4200	4100	3970	3900	3830	3700
	0	4900	4690	4430	4300	4160	3900
5/8EHS	120	2530	2790	3110	3270	3440	3760
	90	3390	3520	3670	3760	3840	4000
	60	4240	4240	4240	4240	4240	4240
	30	5090	4960	4810	4720	4640	4480
	0	5950	5690	5370	5210	5040	4720

Section 12.3 - Method of Determination (Tower Twist and Sway)

Paragraph 12.3.1 states that the preferred method of determining the tower twist and sway is the analytical method. Analytical methods have been used for many years by the tower industry and have proven to be satisfactory.

Due to the many unknown loading conditions (non-uniform wind loading, unusual topography, severe icing, tower maintenance, etc.) that may exist during the life of a communication tower, the guarantee for allowable twist and sway exists only for the customer's specified wind and ice load on an analytical method. Actual tests and field conditions may indicate results different from the analytical method.

Section 13.2.2 - Climbing Facilities

This section requires a climbing facility designed to support 250 pounds concentrated live load. On towers, such as the #25, #45, #55, J, C, and D, the horizontal member used for climbing may not meet this 250 pound concentrated load criteria if verified by using engineering formulas. However, the steps for these towers have performed satisfactorily and to our knowledge do meet the intent of this section of E.I.A. by providing a safe climbing facility when so used.

Section 13.2.2.2 - Step Bolts

It is UNR-Rohn's intent to meet the step bolt spacing requirements of this section. This section requires spacing of a minimum of 12 inches and a maximum of 18 inches. Due to large leg members and very thick flange plates on some heavy duty towers, this maximum 18 inch spacing may be exceeded near the flange plates. This spacing may exceed the 18 inch maximum by approximately 1 inch. If the customer feels this excess step bolt spacing will create problems, step bolts should be removed from the tower and an alternate climbing method used, such as a ladder. Due to the variable spacing of the step bolts along the height of the tower, UNR-Rohn recommends the customer install a safety climbing device on each leg that is to be climbed by the customer's trained personnel.

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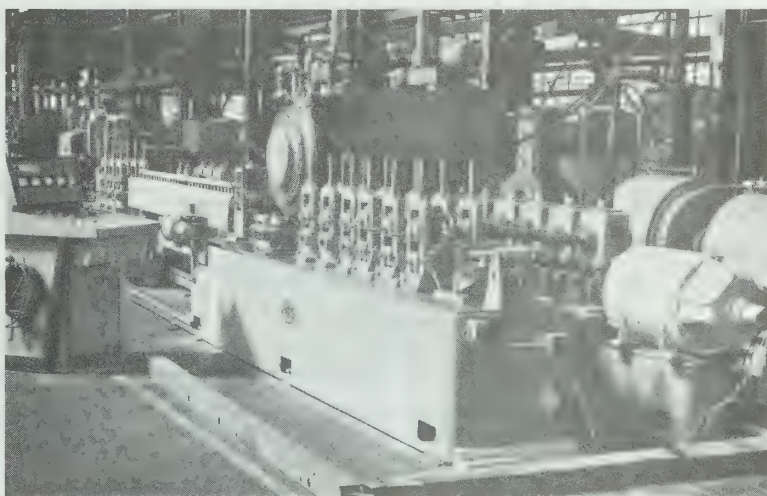
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6718 West Plank Road, P.O. Box 2000
Peoria, Illinois 61656

Hot dip galvanizing is a process for rust-proofing iron and steel by the application of a coating of metallic zinc. It is a versatile process in that it is applicable to products of nearly all shapes and sizes, ranging from nails, nuts and bolts to large structural assemblies. On all steel parts, galvanizing provides long-lasting and economical protection against a wide variety of corrosive elements in the air, in water, or in the soil.

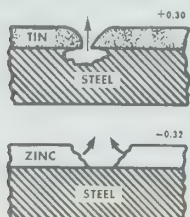
Corrosion Resistance of Galvanized Steel

The use of zinc is unique among corrosion-protective methods. The zinc coat serves in a twofold capacity.

First—It protects the steel from corrosive attack in most atmospheres, acting as a continuous and lasting shield between the steel and the atmosphere so long as the zinc sheath is unbroken.

Second—As a galvanic protector sacrificing itself slowly in the presence of corrosive elements by continuing to protect the steel even when moderate-sized areas of bare metal have been exposed. This last ability results from the fact that zinc is more electro-chemically active than steel.

Of all industrial coating materials, zinc alone possesses this dual ability. With most protective coatings that act only as a barrier, rapid attack commences when exposure of the base metal occurs.



This is what happens at a small exposed area in a coating of tin on steel. Tin merely serves as a barrier until the coating is penetrated. Then, because of electrochemical activities, the steel protects the tin.

This is what happens at a small exposed area in a coating of zinc on steel. The zinc has a greater tendency to go into solution at the hands of the elements than the base metal steel. The zinc is consumed while the steel is protected from any attack.

The distance over which this galvanic protection is effective depends upon the environment. When completely and continuously wet, especially as by a strong electrolyte—e.g., sea water—relatively large areas of exposed steel will be protected so long as any zinc remains. In air, where the electrolyte is only superficially or discontinuously present, such as from dew or rain, the areas of bare steel protected are smaller. Nevertheless, instances are known of galvanized parts exposed out-of-doors which, although severely damaged by misuse, have remained rust-free for many years due entirely to the sacrificial action of the zinc.

Experience has shown that the corrosion resistance of galvanized coatings in the field cannot be predicted from accelerated laboratory tests. According to K. S. Frazier in his portion of the Monograph on Zinc,* "Field inspection has shown that the popular service chart (above) is conservative for general usage and numerous individual cases have shown a protection substantially exceeding the periods shown."

A controlling factor in the life of galvanized steel is the sulfur content of the atmosphere. In polluted areas, such as "severe industrial," the normally protective zinc corrosion products tend to be converted to soluble sulfates which are washed away by rain, exposing the zinc to further attack and accelerating the weathering of the zinc.

It should be explained at this point that the amount of zinc on the surface of a galvanized article is measured in ounces per square foot of surface. That is to say, an article bearing a 2-ounce zinc coat has an average of 2 ounces of zinc on each square foot of surface of the galvanized article. This 2-ounce coat is equivalent to a thickness of .0034 inch or 3.4 mils (1 ounce per square foot is .0017 inch or 1.7 mils thick). Note: In the case of galvanized steel sheets the weight of zinc is specified in terms of total zinc on *both* sides of the sheet; i.e., a 2-ounce sheet has 1 ounce of zinc per square foot of surface.

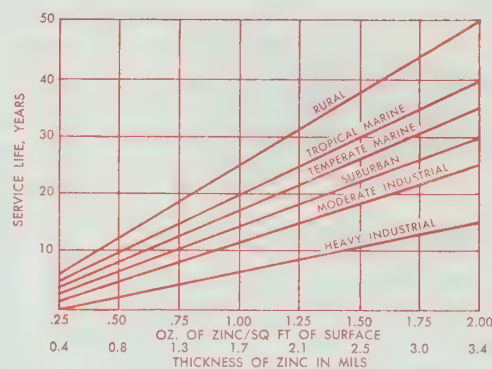
The Galvanizing Process

The hot-dip galvanized coating is applied by immersing a thoroughly cleaned product in a bath of molten zinc. The zinc used for the coating shall conform to the Standard Specifications for Slab Zinc (Spelter) (ASTM Designation B6) and shall be at least equal to the grade designated as "Prime Western."

As with all metal coating operations, thorough cleaning of the basis metal is essential. Proper preparation of steel surfaces for galvanizing involves three stages—degreasing, scale or rust removal, and fluxing. While practices vary from plant to plant—depending on both need and facilities—the steel must be clean.

If necessary, grease or paint is removed in a hot alkaline or other degreasing bath. After rinsing, the steel is descaled by pickling. Pickling is usually done in a dilute hot sulfuric acid solution (5 to 10 per cent sulfuric acid) to which an inhibitor is frequently added.

Shot or grit blasting may be employed in situations where mill



scale is deeply imbedded in the surface of the steel or where, as in casting, the surface has inclusions of sand particles which are resistant to the normal pickling acids.

After pickling, the material *must be rinsed thoroughly* to rid the surface of residual acid and iron salts. The work is then dipped in an aqueous preflux solution consisting usually of zinc ammonium chloride. This preflux has two functions. First, it coats the work with a thin layer of salt which protects the steel from the air until it is galvanized. Second, it supplements the action of the molten flux blanket which if used, is floating on the zinc bath, by removing any residual oxide and facilitates the wetting of the steel by the molten zinc.

The galvanizing bath is usually controlled at temperatures in the range 830° to 860° F, depending on the type of work being treated.

The fresher and more fluid the flux, the greater is its basic effectiveness and the more readily is it dispelled from the surface of the steel. Because of local chilling action when it enters the bath, the steel invariably carries with it some of the salt, and time must be allowed for the steel to reach the temperature of the bath and for the flux to separate and rise to the surface. During immersion of the article in the zinc bath, a visible bubbling action takes place, resulting from the interaction of the steel, flux, and the molten zinc. The work is usually withdrawn when bubbling subsides and after a preliminary inspection has shown that a continuous coating of zinc has formed.

After galvanizing, the work may be quenched in water or cooled in air. Small parts, such as nuts, bolts, and washers, which are galvanized in baskets in a batch, are usually centrifuged to remove excess zinc before it freezes.

Structure of the Coating

The usual hot dip galvanizing coating has a duplex structure consisting of a layer of iron-zinc alloy phases next to the steel with an outer layer of zinc having the same composition as the galvanizing bath.

It is important to note that the protection afforded depends on the total thickness of the coating and that it is relatively unaffected by the proportions of the alloy and the zinc layers.

The total thickness of the coating as well as the relative amounts of the individual layers which form in the usual hot dip galvanizing process will depend on a number of factors which can be placed in two main categories: composition of the basis steel and galvanizing techniques.

It is generally accepted that the elements silicon, carbon, and phosphorus tend to increase the thickness of the iron-zinc alloy phases. Surface roughness of the steel may also promote alloy layer formation because of the increased surface area exposed to the zinc.

The second main category of variables are those which the galvanizer can control, primarily bath temperature, immersion time, and withdrawal rate. The formation of the iron-zinc alloy is a diffusion process, therefore, higher bath temperatures and longer immersion times will produce heavier alloy layers. Like all diffusion processes, the reaction proceeds rapidly at first and slows down as the layers become thicker.

The thickness of the outer zinc layer is largely independent of immersion time. It depends on the rate of withdrawal and the extent of drain-off. A fast rate of withdrawal of the article from the zinc bath "carries out" more zinc which results in a heavier coating, although the distribution of the zinc layer may become increasingly uneven.

*"Zinc—The Science and Technology of the Metal, Its Alloys and Compounds" edited by C. H. Mathewson, ACS Monograph #142, Reinhold Publishing Corporation, New York, 1959.

Please complete or check all applicable spaces.

CUSTOMER: _____ TELEPHONE: _____

ADDRESS: _____ CITY _____ STATE _____ ZIP _____

TOWER SITE:	CITY	STATE	ZIP

CUSTOMER CONTACT: _____ TELEPHONE: _____

THIS TOWER IS FOR:

() Material Only	() Material & Installation by Rohn (Rohn assumes normal site & access.)
() Union Labor	() Non-Union Labor

Design assumes normal soil and rigidity per E.I.A., 80% guy radius, and level ground.

FOUNDATION INSTALLATION: () By Others () By Rohn (Provide sketch or azimuth of one leg)

TYPE OF TOWER: ☐ Guyed ☐ Self-Supporting ☐ Bracketed ☐ Roof Mounted

TOWER HEIGHT: BUILDING CODE:

BASE OF TOWER: () Ground () Roof at ft. above grade

DESIGN LOAD: Exposure Wind Ice

OPERATIONAL LOAD: Wind Ice

EIA OPERATIONAL REQUIREMENTS: () Yes () No () Other (Explain)

I. STEP BOLTS OR LADDERS: () None Quantity:

<input type="checkbox"/> Inside	<input type="checkbox"/> Face	<input type="checkbox"/> Standard
<input type="checkbox"/> Outside	<input type="checkbox"/> Corner	<input type="checkbox"/> Heavy
<input type="checkbox"/> Step Bolts	<input type="checkbox"/> Leg	<input type="checkbox"/> Other

SAFETY DEVICE: () Rohn-Loc () Other (Explain _____)

II. OBSTRUCTION MARKING AND LIGHTING: () None

AIRCRAFT WARNING LIGHTS: () Yes () No () By Others (Explain)

If yes, () FAA - or - () ICAO

STROBE LIGHTS: () Yes () No If yes, type

BEACON PLATE REQUIRED: () FAA () Strobe Mfr.

PAINT: () Factory Applied () Sufficient Paint for Field Application

III. VERTICAL WAVEGUIDE SUPPORT: () None () Ladder () Brackets

() Conduit () Brackets () Other

Location of Vertical Waveguide Support (If Preference)

WAVEGUIDE BRIDGE: Provide sketch or explanation

IV. PLATFORMS: () Not Required () Required (Provide elevation and description)

V. LIGHTNING PROTECTION: () None

LIGHTNING ROD REQUIRED: () Yes () No If yes, quantity _____

EIA GROUNDING: () Yes () No () Special (Explain _____)

(Continued on reverse side.)

VI. ANTENNA INFORMATION (VHF/UHF mounts must state type of mount and length of side arm, if applicable. Attach a separate sheet if necessary.)

QTY.	MODEL NO., SIZE AND MANUFACTURER	FREQUENCY	ELEV. (2' TOL.) U.N.)	AZIMUTH IF APPLI- CABLE	ANT. MOUNT REQ'D.			NO. OF TIEBACKS	ICE SHIELD	LINES: SIZE, MODEL & QTY.
					YES	NO	BY OTHERS DESCRIBE			

VII. THE FOLLOWING DATA IS REQUIRED FOR SPECIAL FOUNDATION DESIGNS:

- A. Allowable bearing capacity
- B. Boring log showing composition and variation with depth
- C. Water table depth and variation
- D. Type of foundation recommended (pile, spread footing, mat, etc.)
- E. Uplift recommendations, pertinent to the type or types of foundations recommended
- F. Consistency of soil:
 1. Unconfined compression strength of cohesive soil (clay)
 2. Standard penetration - blows per foot
 3. Rock quality designation for rock
- G. Allowable passive pressure in pounds per sq. ft. per ft. depth (PSF/FT)
- H. Backfill considerations
- I. Factors of safety included in allowable design values

- NOTES:
1. Before any soil boring work begins, the soils engineer should contact Rohn for tower reactions, preferred boring locations, and any other data the soils engineer may require.
 2. A detailed soils report, with proper foundation recommendations, will produce the most economical and safe foundation design.

VIII. ADDITIONAL INFORMATION, COMMENTS, OR SPECIAL REQUIREMENTS:

SUBMITTED BY: _____ DATE: _____
(Signature)

RETURN COMPLETED FORM TO: Rohn, P. O. Box 2000, Peoria, IL 61656

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